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Level IV Data Package

MWH Group 203332

Method: 314 CLO4

Sample No.:

2705020837
2705020838
2705020839
2705020840
2705020841
2705020842
2705020843
2705020844
2705020845
2705020846
2705020847
2705020848
2705020849
2705020850
2705020851
2705020852
2705020853
2705020854
2705020855
2705020856
2705020857
2705020858
2705020859
2705020860
2705020861
2705020862
2705020863
2705020864

Perchlorate QC Checklist

rev: 27 Mar 03

Analysis Date: 05-08-07 Analyst: Paje

QC'd by M Date 16 May 07

Instrument: IC8 Calculated MCT Level: 876 umhos/cm

Original IPC conductance: 876 umhos/cm Daily IPC conductance: 863 umhos/cm

Batch #1

Calibration including QCS

- ☒ QCS (20ppb) recovery is within 90% - 110% (18-22ppb) to verify that the calibration curve (minimum 5 points) still holds.
- ☒ Calibration curve is reanalyzed if QCS fails. Correlation Coefficient is 0.995 or better.

Initial QC Check Samples (MBLANK, MRL, ICCSCV, IPC) to be analyzed with every batch (up to 20 samples) or part thereof

☒ MBLANK is analyzed before samples. Perchlorate, if present, is < or = half of the MRL.

☒ L-ClO4 only: ICCSCV at 2ppb is within 50%-150% (1-3ppb)

☒ ClO4 only: MRL at 4ppb is within 75%-125% (3-5ppb)

☒ IPC (25ppb) recovery is between 80%-120% (20-30ppb)

☒ IPC retention time is within 5% of the retention time of the standards

☒ IPC Conductance level is within 10% of the original

$$PDA/H = 13.4\%$$

13%

LCS/LCSD (25ppb)

☒ Recoveries are between 90%-110% (22.5 - 27.5ppb)

☒ One pair is analyzed per batch (up to 20 samples) or part thereof

MS/MSD (25ppb) NOTE: For UCMR, MS/MSD concentrations alternate between 4ppb and 25ppb

☒ Recoveries are within 80%-120% (20-30ppb) for 25ppb spike N/A (3.2-4.8ppb) for 4ppb spike

☒ One pair is analyzed per batch (up to 20 samples) or part thereof

☒ RPD between MS and MSD is within 15%.

Continuing Calibration Verification (MCV, HCV) NOTE: For UCMR ECV and MCV are required

☒ Verification Checks alternate between mid- and high-level during the analysis (low- and mid-level for UCMR)

☒ MCV (25ppb) recovery is between 85%-115% (21.25 - 28.75ppb)

☒ HCV (100ppb) recovery is between 85%-115% (85-115ppb) N/A ECV (4ppb) recovery is between 75%-125% (3.0-5.0)

Pretreat and include the following QC parameters for any batch or part thereof containing samples requiring pretreatment

☒ One Laboratory Reagent Blank (LRB). Perchlorate is < or = half of MRL.

☒ One pair of Laboratory Control Samples (LCS/LCSD). Recovery of perchlorate is between 85%-115%.

☒ One Pair of Laboratory Fortified Matrices (MS/MSD). Recoveries are between 80%-120%

Samples

☒ All samples are analyzed within 28 days of collection.

☒ All samples are analyzed within MCT Conductance limit.

QIR

N/A QIR needed for failed QC

N/A QIR needed for samples analyzed outside of hold time

FOR ENTIRE GROUP CONDUCTIVITY MW SOP REVISION 5
SM2510B

Analysis Date: 05-08-07

Analyst: Raja

Reviewed By: _____

LIMS Check By: _____

Time of Analysis Start: _____ End: _____

MRL 2umhos/cm: R# _____ exp of solution: _____

KCI Std 1412 R# 201556 exp of solution 08107

TV = 1412 umho/cm @ 25°C for 0.0100M

Reading: 1424

Instrument: YSI Model 3200 SN: 01A0504 Year Acquired 2001 New

Was QC Criteria Met: Y N

Was QIR Needed: Y N

Run #	Sample Number	Sample ID	Client	Date Collected	Temp °C	pH	Scale (umho/mmho)	Result		Comments
								Instrument	Reported (umho/cm)	
	Blank						AS	0.6108		
	STD MRL 2umhos/cm							N/A		1-3—±50% of TV
	STD KCI - 1000 mhos/cm							995		950-1050—±5% of TV
1	2705020810	PC66	Kormco	05-01-07				9008		
2	811	PC66D						9676		
3	812	PC65					↓	9298		
4	837	T-O					ms	16.06		
5	838	-P						17.23		
6	839	-H						12.34		
7	840	-U						18.13		
8	841	-Q						18.29		
9	842	-F						16.17		
10	843	-N						14.07		
DUP	↓	↓						14.07		RPD < 5%
11	844	-E						12.69		
12	845	-M						12.12		
13	846	-D					↓	11.65		
14	847	-C					ms	9999		
15	848	-S						8946		
16	849	-L						9438		
17	850	-R						9728		
18	851	-B					↓	6905		
19	852	↓ -AR					ms	10.71		
20	853	PC-127					ms	9699		
DUP	↓	↓					↓	9699		RPD < 5%
	STD KCI - 10 mhos/cm							N/A		8-12—RPD < 20% of TV

$$\% \text{ RPD} = \frac{|S1 - S2|}{(S1 + S2)/2} \times 100$$

S1 = reading of 1st sample
S2 = reading of 2nd sample

FOR ENTIRE GROUP

CONDUCTIVITY MW SOP REVISION 5
SM2510B

Analysis Date: 05-08-07

Analyst: Raja

Reviewed By: _____

LIMS Check By: _____

Was QC Criteria Met: Y N

Was QIR Needed: Y N

Time of Analysis Start: _____ End: _____

MRL 2umhos/cm: R# _____ exp of solution: _____

KCl Std 1412 R# 201556 exp of solution 08/07

TV = 1412 umho/cm @ 25°C for 0.0100M

Reading: 1424

Instrument: YSI Model 3200 SN:01A0504, Year Acquired 2001 New

Run #	Sample Number	Sample ID	Client	Date Collected	Temp °C	pH	Scale (umho/mmho)	Result		Comments
								Instrument	Reported (umho/cm)	
	Blank						MS	0.6108		
STD	MRL 2umhos/cm							N/A		1-3 ±50% of TV
STD	KCl - 1000 mhos/cm							995		950-1050 ±5% of TV
1	2705020813	2D05007	Kennedy	05-01-07				88		
2	854	I-T					MS	12.16		
3	855	M-69					MS	6216		
4	856	-79						1942		
5	857	-98						5741		
6	858	-99						7630		
7	859	-57A						4479		
8	860	↓ -25						9999		
9	861	EB-1						143		
10	862	M-10						4366		
DUP	↓	↓						4366		RPD < 5%
11	863	MD-4						4530		
12	↓ 864	M-37	↓	↓				8861		
13	2705040128	SDCWA 4	Packie/B	05-03-07				844		
14	↓ 129	↓ 6	↓	↓				838		
15	2705070404	371004-6	excurside	05-07-07				817		
16	↓ 448	↓ -2	↓	↓				754		
17	↓ 449	↓ -7	↓	↓				875		
18										
19										
20										
DUP	2705070449	371004-6	excurside	05-07-07				875		RPD < 5%
STD	KCl - 10 mhos/cm							N/A		8-12 RPD < 20% of TV

$$\% \text{ RPD} = \frac{|S1 - S2|}{(S1 + S2)/2} \times 100$$

S1 = reading of 1st sample
S2 = reading of 2nd sample

Sample No.	Sample Name	Dil.Fac.	Comment	Time	Amount ug/L Perchlorate ECD_1
1	WASH	1.0		05.08.07 10:16	n.a.
2	CAL1	1.0		05.08.07 10:37	n.a.
3	CAL2	1.0	RAJA060913-2	05.08.07 10:58	2.2019
4	CAL3	1.0	RAJA060913-3	05.08.07 11:20	3.7695
5	CAL4	1.0	RAJA060913-4	05.08.07 11:41	9.4266
6	CAL5	1.0	RAJA060913-5	05.08.07 12:03	24.8295
7	CAL6	1.0	RAJA060913-6	05.08.07 12:24	50.3275
8	CAL7	1.0	RAJA060913-7	05.08.07 12:46	99.9400
9	WASH	1.0		05.08.07 14:47	5.0752
10	QCS	1.0		05.08.07 15:08	19.9344
11	IPC	1.0		05.08.07 15:30	23.2242
12	MBLK	1.0		05.08.07 15:51	✓ n.a.
13	MRL-2	1.0		05.08.07 16:13	1.9495
14	MRL-4	1.0		05.08.07 16:34	✓ 3.7803
15	LCS1	1.0		05.08.07 16:56	✓ 24.3267
16	LCS2	1.0		05.08.07 17:17	✓ 24.4304
17	2705020810_1/10000	10000.0		05.08.07 17:38	✓ 510986.9870
18	2705020811_1/10000	10000.0		05.08.07 18:00	✓ 442960.4704
19	2705020812_1/10000	10000.0		05.08.07 18:21	✓ 635794.9966
20	2705020837_1/50000	50000.0		05.08.07 18:42	✓ 1687140.8449
21	2705020838_1/50000	50000.0		05.08.07 19:04	✓ 1627243.1772
22	2705020839_1/50000	50000.0		05.08.07 19:25	✓ 841612.1774
23	2705020840_1/50000	50000.0		05.08.07 19:46	✓ 1671834.5900
24	2705020841_1/50000	50000.0		05.08.07 20:08	✓ 1389891.6978
25	2705020842_1/50000	50000.0		05.08.07 20:29	✓ 1170216.8744
26	2705020843_1/50000	50000.0		05.08.07 20:51	✓ 1589442.8128
27	2705020843MS	1.0		05.08.07 21:12	✓ 54.8891
28	2705020843MSD	1.0		05.08.07 21:34	✓ 54.7665
29	CCV	1.0		05.08.07 21:55	24.0199
30	2705020844_1/50000	50000.0		05.08.07 22:16	✓ 834599.0286
31	2705020845_1/50000	50000.0		05.08.07 22:38	✓ 659816.1664
32	2705020846_1/50000	50000.0		05.08.07 22:59	✓ 936036.5729
33	2705020847_1/50000	50000.0		05.08.07 23:20	✓ 939434.1416
34	2705020848_1/50000-DNR	50000.0		05.08.07 23:42	n.a.
35	2705020849_1/50000	50000.0		05.09.07 00:03	✓ 1780138.4249
36	2705020850_1/50000	50000.0		05.09.07 00:25	✓ 2475055.6084
37	2705020851_1/50000	50000.0		05.09.07 00:46	✓ 899554.2175
38	2705020852_1/50000	50000.0		05.09.07 01:07	✓ 3672515.0960
39	2705020853_1/50000-DNR	50000.0		05.09.07 01:29	n.a.
40	HCV	1.0		05.09.07 01:50	98.6062
41	wash	1.0		05.09.07 02:12	n.a.
42	QCS	1.0		05.09.07 02:33	19.7565
43	IPC	1.0		05.09.07 02:54	22.8557
44	MBLK	1.0		05.09.07 03:16	✓ n.a.

99.7%
99.7% 92.9%
✓
97.5%
94.5%
97.3%
97.7%

23.1-92.4%
23.0-91.9%
96.1%

98.6%
98.8%
91.4%

45	MRL-2	1.0	05.09.07 03:38	1.6339	81.7%
46	MRL-4	1.0	05.09.07 03:59	✓ 3.2471	81.2%
47	LCS1	1.0	05.09.07 04:21	✓ 23.8349	95.3%
48	LCS2	1.0	05.09.07 04:42	✓ 23.4316	93.7%
49	2705030363 DNR	1.0	05.09.07 05:04	0.5717	
50	2705030363 MS	1.0	05.09.07 05:25	✓ 21.8561	21.3-85.1%
51	2705030363 MSD	1.0	05.09.07 05:47	✓ 21.0381	20.5-81.9%
52	2705070463_1/5-DNR	5.0	05.09.07 06:08	n.a.	
53	2705070464_1/5	5.0	05.09.07 06:29	✓ n.a.	
54	2705070465_1/5-DNR	5.0	05.09.07 06:51	n.a.	
55	2705070466_1/5	5.0	05.09.07 07:12	✓ 7.8858	
56	2705070467_1/5	5.0	05.09.07 07:34	✓ n.a.	
57	2705070468_1/5	5.0	05.09.07 07:55	✓ 4.4130	
58	2705070469_1/5	5.0	05.09.07 08:16	✓ n.a.	
59	2705070470_1/5	5.0	05.09.07 08:38	✓ n.a.	
60	2705070471_1/5	5.0	05.09.07 08:59	✓ 3.5910	
61	CCV	1.0	05.09.07 09:21	24.4827	97.9%
62	2705070472_1/5	5.0	05.09.07 09:42	✓ n.a.	
63	2705070473_1/5	5.0	05.09.07 10:04	✓ n.a.	
64	2705070474_1/5	5.0	05.09.07 10:25	✓ n.a.	
65	2705070475_1/5	5.0	05.09.07 10:46	✓ n.a.	
66	2705070476_1/5	5.0	05.09.07 11:08	✓ n.a.	
67	2705070477_1/5	5.0	05.09.07 11:29	✓ 2.2946	
68	2705070478_1/5	5.0	05.09.07 11:51	✓ 7.0943	
69	2705070479_1/5	5.0	05.09.07 12:12	✓ n.a.	
70	2705070480_1/5	5.0	05.09.07 12:34	✓ n.a.	
71	2705070481_1/5	5.0	05.09.07 12:55	✓ n.a.	
72	HCV	1.0	05.09.07 13:16	102.4644	102%

VB-NMS/10/07

Sequence: 050807-CLO4-IC2000-Raja
Operator: raja

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Printed: 5/11/2007 4:08:30 PM

Title: 0210A
Datasource: D7LW3831_local
Location: ICS-2000\CLO4-2007-MAY
Timebase: ICS-2000
#Samples: 72

Created: 5/8/2007 2:05:52 PM by raja
Last Update: 5/11/2007 4:07:13 PM by raja

No.	Name	Comment	Dil. Factor	Type	Program	Method
1	WASH		1.0000	Unknown	PerchlorateDX2	PerchlorateDX2
2	CAL1		1.0000	Standard	PerchlorateDX2	PerchlorateDX2
3	CAL2	RAJA060913-2	1.0000	Standard	PerchlorateDX2	PerchlorateDX2
4	CAL3	RAJA060913-3	1.0000	Standard	PerchlorateDX2	PerchlorateDX2
5	CAL4	RAJA060913-4	1.0000	Standard	PerchlorateDX2	PerchlorateDX2
6	CAL5	RAJA060913-5	1.0000	Standard	PerchlorateDX2	PerchlorateDX2
7	CAL6	RAJA060913-6	1.0000	Standard	PerchlorateDX2	PerchlorateDX2
8	CAL7	RAJA060913-7	1.0000	Standard	PerchlorateDX2	PerchlorateDX2
9	WASH		1.0000	Unknown	PerchlorateDX2	PerchlorateDX2
10	QCS		1.0000	Unknown	PerchlorateDX2	PerchlorateDX2
11	IPC		1.0000	Unknown	PerchlorateDX2	PerchlorateDX2
12	MBLK		1.0000	Unknown	PerchlorateDX2	PerchlorateDX2
13	MRL-2		1.0000	Unknown	PerchlorateDX2	PerchlorateDX2
14	MRL-4		1.0000	Unknown	PerchlorateDX2	PerchlorateDX2
15	LCS1		1.0000	Unknown	PerchlorateDX2	PerchlorateDX2
16	LCS2		1.0000	Unknown	PerchlorateDX2	PerchlorateDX2
17	2705020810_1/10000		10000.0000	Unknown	PerchlorateDX2	PerchlorateDX2
18	2705020811_1/10000		10000.0000	Unknown	PerchlorateDX2	PerchlorateDX2
19	2705020812_1/10000		10000.0000	Unknown	PerchlorateDX2	PerchlorateDX2
20	2705020837_1/50000		50000.0000	Unknown	PerchlorateDX2	PerchlorateDX2
21	2705020838_1/50000		50000.0000	Unknown	PerchlorateDX2	PerchlorateDX2
22	2705020839_1/50000		50000.0000	Unknown	PerchlorateDX2	PerchlorateDX2
23	2705020840_1/50000		50000.0000	Unknown	PerchlorateDX2	PerchlorateDX2
24	2705020841_1/50000		50000.0000	Unknown	PerchlorateDX2	PerchlorateDX2
25	2705020842_1/50000		50000.0000	Unknown	PerchlorateDX2	PerchlorateDX2
26	2705020843_1/50000		50000.0000	Unknown	PerchlorateDX2	PerchlorateDX2
27	2705020843MS		1.0000	Unknown	PerchlorateDX2	PerchlorateDX2
28	2705020843MSD		1.0000	Unknown	PerchlorateDX2	PerchlorateDX2
29	CCV		1.0000	Unknown	PerchlorateDX2	PerchlorateDX2
30	2705020844_1/50000		50000.0000	Unknown	PerchlorateDX2	PerchlorateDX2
31	2705020845_1/50000		50000.0000	Unknown	PerchlorateDX2	PerchlorateDX2
32	2705020846_1/50000		50000.0000	Unknown	PerchlorateDX2	PerchlorateDX2
33	2705020847_1/50000		50000.0000	Unknown	PerchlorateDX2	PerchlorateDX2
34	2705020848_1/50000-DNR		50000.0000	Unknown	PerchlorateDX2	PerchlorateDX2
35	2705020849_1/50000		50000.0000	Unknown	PerchlorateDX2	PerchlorateDX2
36	2705020850_1/50000		50000.0000	Unknown	PerchlorateDX2	PerchlorateDX2
37	2705020851_1/50000		50000.0000	Unknown	PerchlorateDX2	PerchlorateDX2
38	2705020852_1/50000		50000.0000	Unknown	PerchlorateDX2	PerchlorateDX2
39	2705020853_1/50000-DNR		50000.0000	Unknown	PerchlorateDX2	PerchlorateDX2
40	HCV		1.0000	Unknown	PerchlorateDX2	PerchlorateDX2
41	wash		1.0000	Unknown	PerchlorateDX2	PerchlorateDX2
42	QCS		1.0000	Unknown	PerchlorateDX2	PerchlorateDX2

Sequence: 050807-CLO4-IC2000-Raja
Operator: raja

Page 2 of 4
Printed: 5/11/2007 4:08:30 PM

Title: 0210A
Datasource: D7LW3831_local
Location: ICS-2000\CLO4-2007-MAY
Timebase: ICS-2000
#Samples: 72

Created: 5/8/2007 2:05:52 PM by raja
Last Update: 5/11/2007 4:07:13 PM by raja

No.	Name	Status	Inj. Date/Time	*Analyst
1	WASH	Finished	5/8/2007 10:16:06 AM	raja
2	CAL1	Finished	5/8/2007 10:37:31 AM	raja
3	CAL2	Finished	5/8/2007 10:58:56 AM	raja
4	CAL3	Finished	5/8/2007 11:20:22 AM	raja
5	CAL4	Finished	5/8/2007 11:41:47 AM	raja
6	CAL5	Finished	5/8/2007 12:03:13 PM	raja
7	CAL6	Finished	5/8/2007 12:24:39 PM	raja
8	CAL7	Finished	5/8/2007 12:46:05 PM	raja
9	WASH	Finished	5/8/2007 2:47:34 PM	raja
10	QCS	Finished	5/8/2007 3:08:59 PM	raja
11	IPC	Finished	5/8/2007 3:30:24 PM	raja
12	MBLK	Finished	5/8/2007 3:51:50 PM	raja
13	MRL-2	Finished	5/8/2007 4:13:16 PM	raja
14	MRL-4	Finished	5/8/2007 4:34:41 PM	raja
15	LCS1	Finished	5/8/2007 4:56:06 PM	raja
16	LCS2	Finished	5/8/2007 5:17:32 PM	raja
17	2705020810_1/10000	Finished	5/8/2007 5:38:58 PM	raja
18	2705020811_1/10000	Finished	5/8/2007 6:00:24 PM	raja
19	2705020812_1/10000	Finished	5/8/2007 6:21:48 PM	raja
20	2705020837_1/50000	Finished	5/8/2007 6:42:47 PM	raja
21	2705020838_1/50000	Finished	5/8/2007 7:04:08 PM	raja
22	2705020839_1/50000	Finished	5/8/2007 7:25:29 PM	raja
23	2705020840_1/50000	Finished	5/8/2007 7:46:51 PM	raja
24	2705020841_1/50000	Finished	5/8/2007 8:08:13 PM	raja
25	2705020842_1/50000	Finished	5/8/2007 8:29:34 PM	raja
26	2705020843_1/50000	Finished	5/8/2007 8:51:13 PM	raja
27	2705020843MS	Finished	5/8/2007 9:12:40 PM	raja
28	2705020843MSD	Finished	5/8/2007 9:34:03 PM	raja
29	CCV	Finished	5/8/2007 9:55:26 PM	raja
30	2705020844_1/50000	Finished	5/8/2007 10:16:49 PM	raja
31	2705020845_1/50000	Finished	5/8/2007 10:38:12 PM	raja
32	2705020846_1/50000	Finished	5/8/2007 10:59:35 PM	raja
33	2705020847_1/50000	Finished	5/8/2007 11:20:58 PM	raja
34	2705020848_1/50000-DNR	Finished	5/8/2007 11:42:21 PM	raja
35	2705020849_1/50000	Finished	5/9/2007 12:03:44 AM	raja
36	2705020850_1/50000	Finished	5/9/2007 12:25:07 AM	raja
37	2705020851_1/50000	Finished	5/9/2007 12:46:30 AM	raja
38	2705020852_1/50000	Finished	5/9/2007 1:07:53 AM	raja
39	2705020853_1/50000-DNR	Finished	5/9/2007 1:29:16 AM	raja
40	HCV	Finished	5/9/2007 1:50:38 AM	raja
41	wash	Finished	5/9/2007 2:12:02 AM	raja
42	QCS	Finished	5/9/2007 2:33:25 AM	raja

Sequence: 050807-CLO4-IC2000-Raja
Operator: raja

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Printed: 5/11/2007 4:08:30 PM

Title: 0210A
Datasource: D7LW3831_local
Location: ICS-2000\CLO4-2007-MAY
Timebase: ICS-2000
#Samples: 72

Created: 5/8/2007 2:05:52 PM by raja
Last Update: 5/11/2007 4:07:13 PM by raja

No.	Name	Comment	Dil. Factor	Type	Program	Method
43	IPC		1.0000	Unknown	PerchlorateDX2	PerchlorateDX2
44	MBLK		1.0000	Unknown	PerchlorateDX2	PerchlorateDX2
45	MRL-2		1.0000	Unknown	PerchlorateDX2	PerchlorateDX2
46	MRL-4		1.0000	Unknown	PerchlorateDX2	PerchlorateDX2
47	LCS1		1.0000	Unknown	PerchlorateDX2	PerchlorateDX2
48	LCS2		1.0000	Unknown	PerchlorateDX2	PerchlorateDX2
49	2705030363		1.0000	Unknown	PerchlorateDX2	PerchlorateDX2
50	2705030363MS		1.0000	Unknown	PerchlorateDX2	PerchlorateDX2
51	2705030363MSD		1.0000	Unknown	PerchlorateDX2	PerchlorateDX2
52	2705070463_1/5-DNR		5.0000	Unknown	PerchlorateDX2	PerchlorateDX2
53	2705070464_1/5		5.0000	Unknown	PerchlorateDX2	PerchlorateDX2
54	2705070465_1/5-DNR		5.0000	Unknown	PerchlorateDX2	PerchlorateDX2
55	2705070466_1/5		5.0000	Unknown	PerchlorateDX2	PerchlorateDX2
56	2705070467_1/5		5.0000	Unknown	PerchlorateDX2	PerchlorateDX2
57	2705070468_1/5		5.0000	Unknown	PerchlorateDX2	PerchlorateDX2
58	2705070469_1/5		5.0000	Unknown	PerchlorateDX2	PerchlorateDX2
59	2705070470_1/5		5.0000	Unknown	PerchlorateDX2	PerchlorateDX2
60	2705070471_1/5		5.0000	Unknown	PerchlorateDX2	PerchlorateDX2
61	CCV		1.0000	Unknown	PerchlorateDX2	PerchlorateDX2
62	2705070472_1/5		5.0000	Unknown	PerchlorateDX2	PerchlorateDX2
63	2705070473_1/5		5.0000	Unknown	PerchlorateDX2	PerchlorateDX2
64	2705070474_1/5		5.0000	Unknown	PerchlorateDX2	PerchlorateDX2
65	2705070475_1/5		5.0000	Unknown	PerchlorateDX2	PerchlorateDX2
66	2705070476_1/5		5.0000	Unknown	PerchlorateDX2	PerchlorateDX2
67	2705070477_1/5		5.0000	Unknown	PerchlorateDX2	PerchlorateDX2
68	2705070478_1/5		5.0000	Unknown	PerchlorateDX2	PerchlorateDX2
69	2705070479_1/5		5.0000	Unknown	PerchlorateDX2	PerchlorateDX2
70	2705070480_1/5		5.0000	Unknown	PerchlorateDX2	PerchlorateDX2
71	2705070481_1/5		5.0000	Unknown	PerchlorateDX2	PerchlorateDX2
72	HCV		1.0000	Unknown	PerchlorateDX2	PerchlorateDX2

Sequence: 050807-CLO4-IC2000-Raja
Operator: raja

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Printed: 5/11/2007 4:08:30 PM

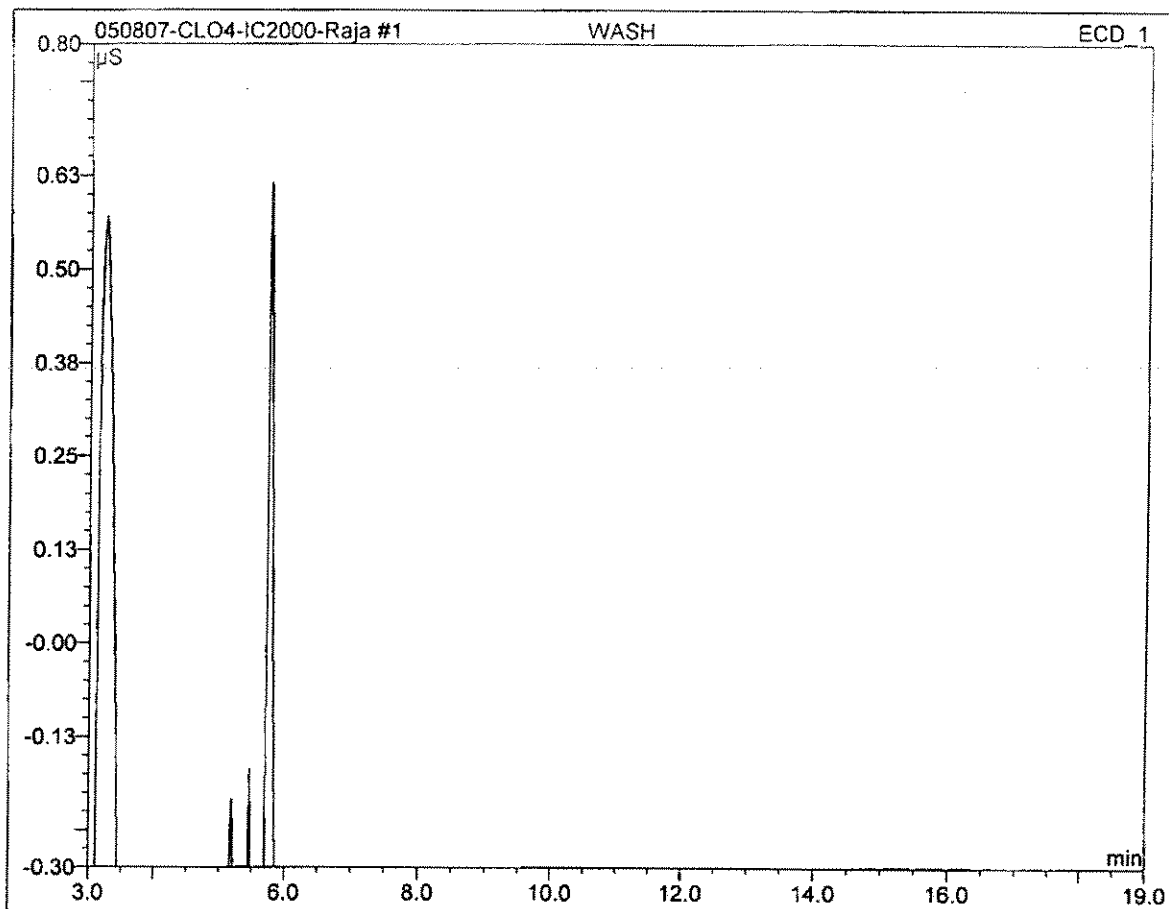
Title: 0210A
Datasource: D7LW3831_local
Location: ICS-2000\CLO4-2007-MAY
Timebase: ICS-2000
#Samples: 72

Created: 5/8/2007 2:05:52 PM by raja
Last Update: 5/11/2007 4:07:13 PM by raja

No.	Name	Status	Inj. Date/Time	*Analyst
43	IPC	Finished	5/9/2007 2:54:48 AM	raja
44	MBLK	Finished	5/9/2007 3:16:11 AM	raja
45	MRL-2	Finished	5/9/2007 3:38:07 AM	raja
46	MRL-4	Finished	5/9/2007 3:59:51 AM	raja
47	LCS1	Finished	5/9/2007 4:21:20 AM	raja
48	LCS2	Finished	5/9/2007 4:42:48 AM	raja
49	2705030363	Finished	5/9/2007 5:04:16 AM	raja
50	2705030363MS	Finished	5/9/2007 5:25:44 AM	raja
51	2705030363MSD	Finished	5/9/2007 5:47:12 AM	raja
52	2705070463_1/5-DNR	Finished	5/9/2007 6:08:18 AM	raja
53	2705070464_1/5	Finished	5/9/2007 6:29:43 AM	raja
54	2705070465_1/5-DNR	Finished	5/9/2007 6:51:09 AM	raja
55	2705070466_1/5	Finished	5/9/2007 7:12:35 AM	raja
56	2705070467_1/5	Finished	5/9/2007 7:34:01 AM	raja
57	2705070468_1/5	Finished	5/9/2007 7:55:27 AM	raja
58	2705070469_1/5	Finished	5/9/2007 8:16:53 AM	raja
59	2705070470_1/5	Finished	5/9/2007 8:38:19 AM	raja
60	2705070471_1/5	Finished	5/9/2007 8:59:44 AM	raja
61	CCV	Finished	5/9/2007 9:21:11 AM	raja
62	2705070472_1/5	Finished	5/9/2007 9:42:37 AM	raja
63	2705070473_1/5	Finished	5/9/2007 10:04:03 AM	raja
64	2705070474_1/5	Finished	5/9/2007 10:25:29 AM	raja
65	2705070475_1/5	Finished	5/9/2007 10:46:57 AM	raja
66	2705070476_1/5	Finished	5/9/2007 11:08:24 AM	raja
67	2705070477_1/5	Finished	5/9/2007 11:29:50 AM	raja
68	2705070478_1/5	Finished	5/9/2007 11:51:16 AM	raja
69	2705070479_1/5	Finished	5/9/2007 12:12:42 PM	raja
70	2705070480_1/5	Finished	5/9/2007 12:34:07 PM	raja
71	2705070481_1/5	Finished	5/9/2007 12:55:06 PM	raja
72	HCV	Finished	5/9/2007 1:16:26 PM	raja

1 WASH

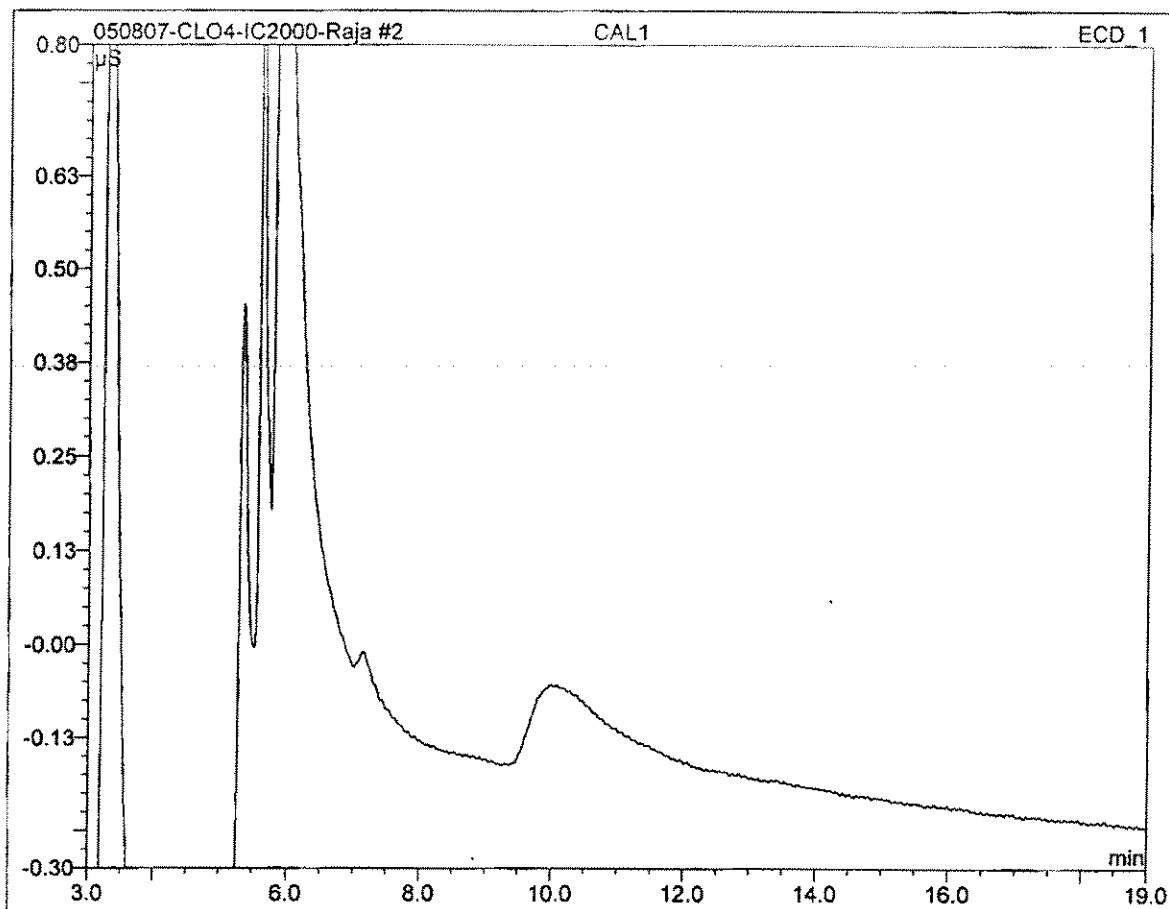
Sample Name:	WASH	Channel:	ECD_1
Sample Type:	unknown	Control Program:	PerchlorateDX2
Recording Time:	05/08/2007 10:16	Quantif. Method:	PerchlorateDX2
Analyst:	raja	Dilution Factor:	1.0000



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ug/L	Type
Total:			0.000	0.000	0.00	0.000	

2 CAL1

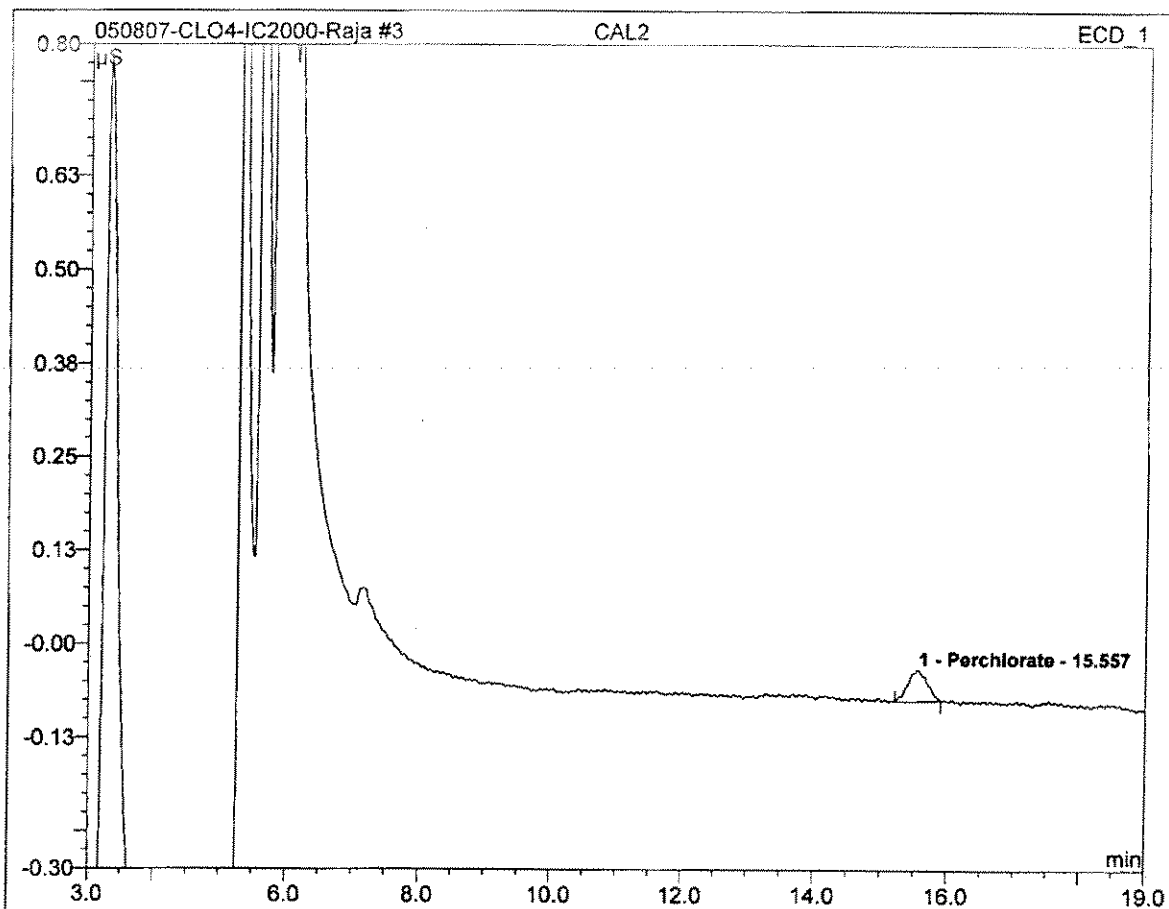
Sample Name:	CAL1	Channel:	ECD_1
Sample Type:	standard	Control Program:	PerchlorateDX2
Recording Time:	05/08/2007 10:37	Quantif. Method:	PerchlorateDX2
Analyst:	raja	Dilution Factor:	1.0000



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ug/L	Type
Total:			0.000	0.000	0.00	0.000	

3 CAL2**RAJA060913-2**

Sample Name:	CAL2	Channel:	ECD_1
Sample Type:	standard	Control Program:	PerchlorateDX2
Recording Time:	05/08/2007 10:58	Quantif. Method:	PerchlorateDX2
Analyst:	raja	Dilution Factor:	1.0000

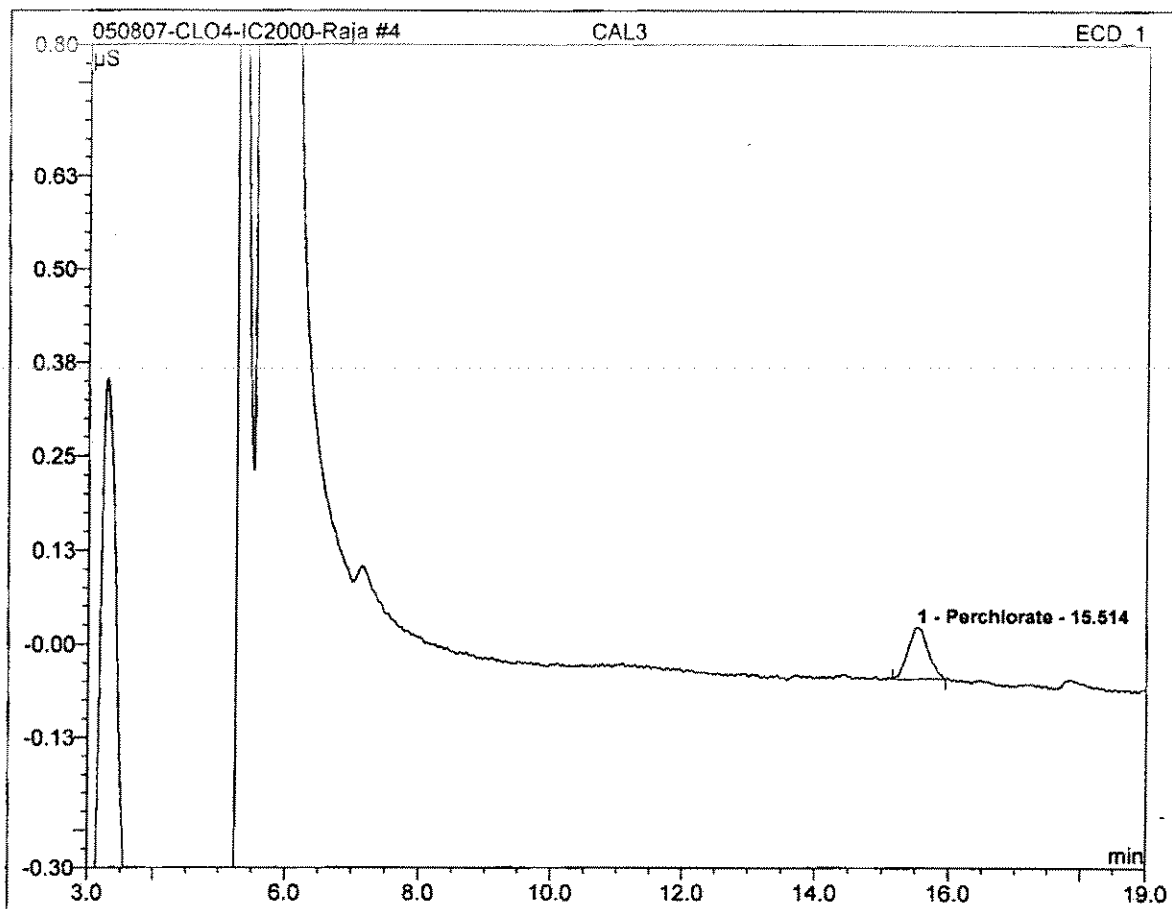


No.	Ret. Time min	Peak Name	Height µS	Area µS*min	Rel. Area %	Amount ug/L	Type
1	15.56	Perchlorate	0.042	0.014	100.00	2.202	BMB
Total:			0.042	0.014	100.00	2.202	

4 CAL3**RAJA060913-3**

Sample Name: **CAL3**
Sample Type: **standard**
Recording Time: **05/08/2007 11:20**
Analyst: **raja**

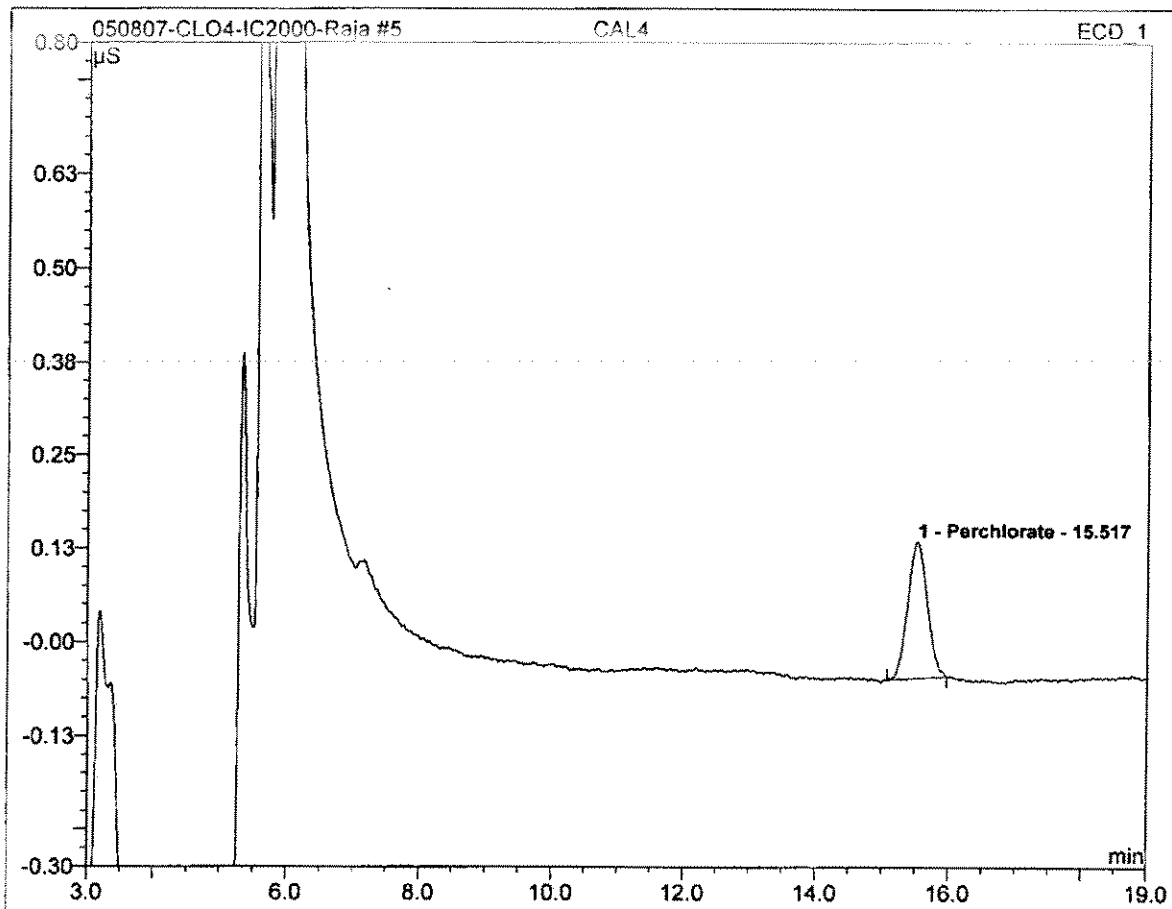
Channel: **ECD_1**
Control Program: **PerchlorateDX2**
Quantif. Method: **PerchlorateDX2**
Dilution Factor: **1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ug/L	Type
1	15.51	Perchlorate	0.069	0.024	100.00	3.770	BMB
Total:			0.069	0.024	100.00	3.770	

5 CAL4**RAJA060913-4**

Sample Name:	CAL4	Channel:	ECD_1
Sample Type:	standard	Control Program:	PerchlorateDX2
Recording Time:	05/08/2007 11:41	Quantif. Method:	PerchlorateDX2
Analyst:	raja	Dilution Factor:	1.0000

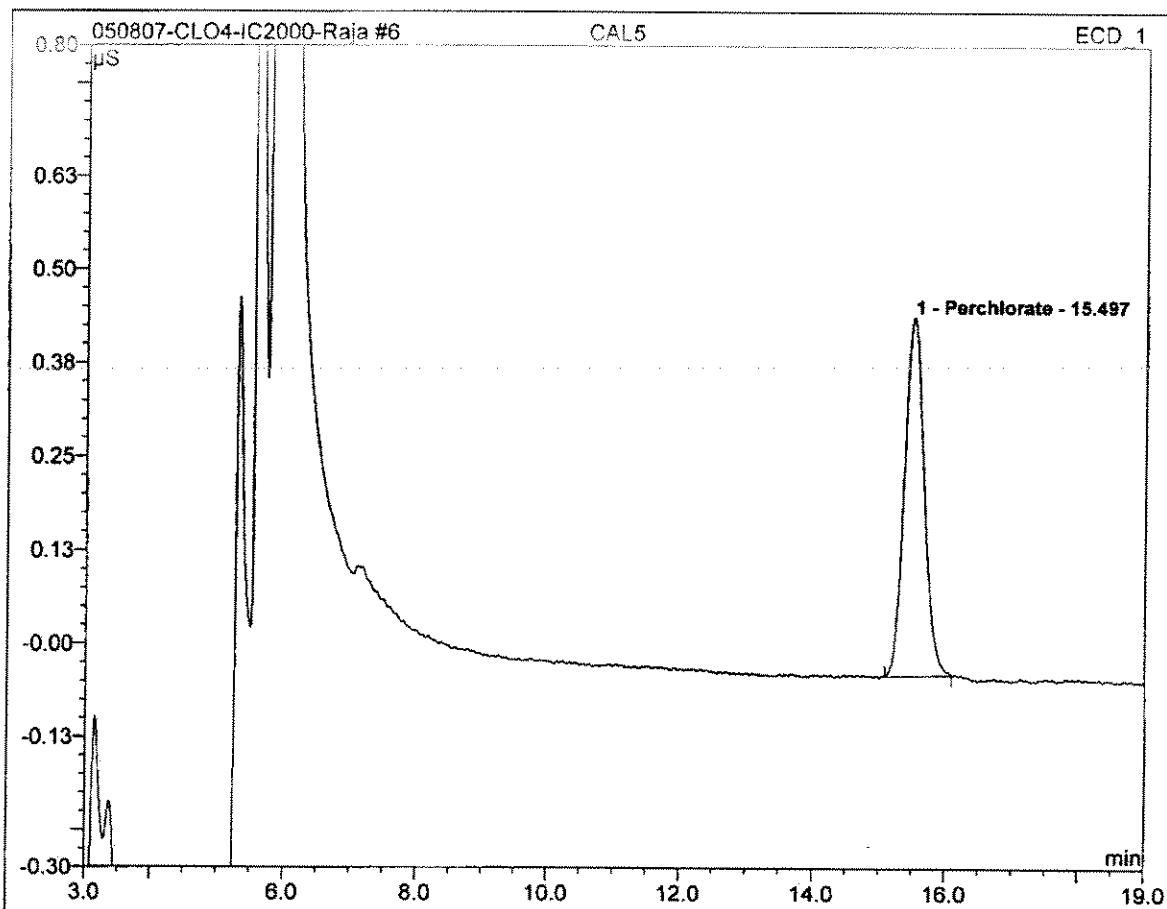


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ug/L	Type
1	15.52	Perchlorate	0.182	0.061	100.00	9.427	BMB
Total:			0.182	0.061	100.00	9.427	

6 CAL5**RAJA060913-5**

Sample Name: **CAL5**
Sample Type: **standard**
Recording Time: **05/08/2007 12:03**
Analyst: **raja**

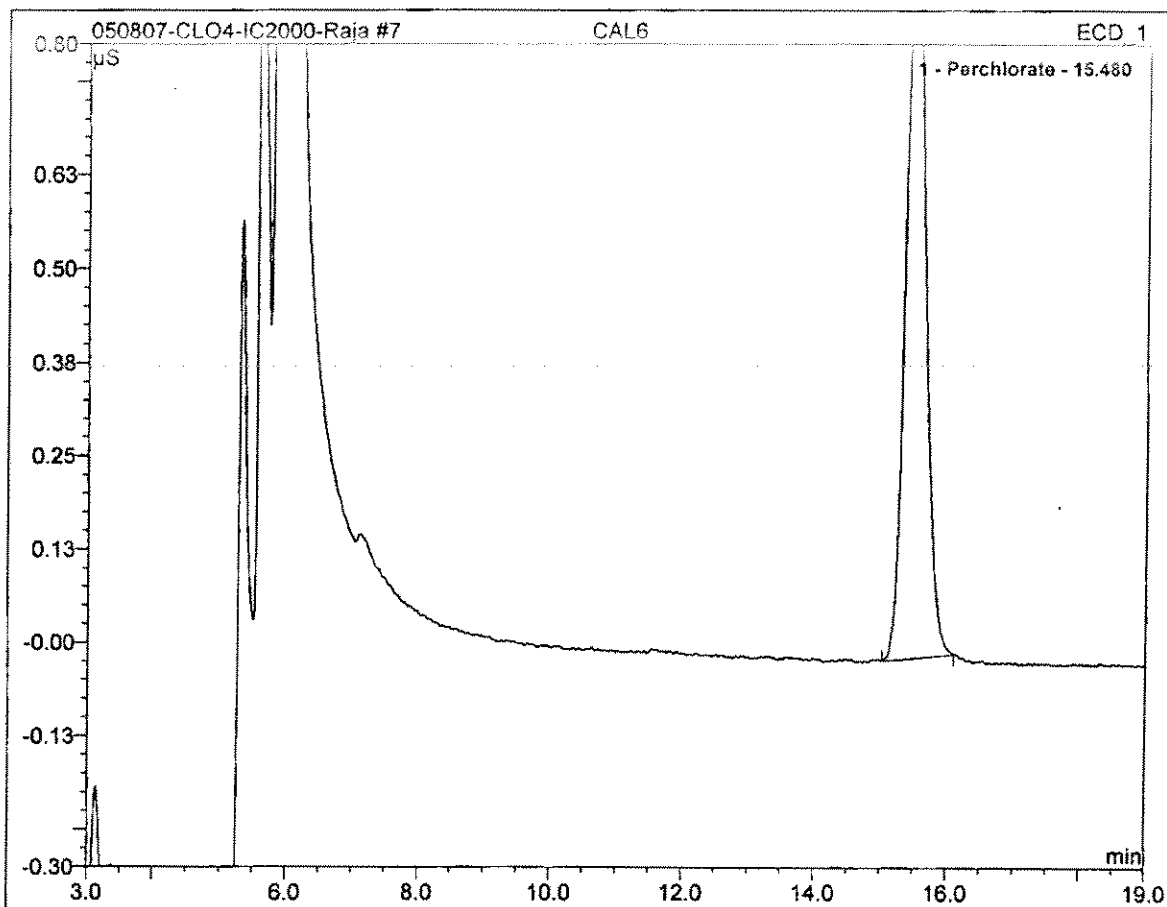
Channel: **ECD_1**
Control Program: **PerchlorateDX2**
Quantif. Method: **PerchlorateDX2**
Dilution Factor: **1.0000**



No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount ug/L	Type
1	15.50	Perchlorate	0.477	0.164	100.00	24.830	BMB
Total:			0.477	0.164	100.00	24.830	

7 CAL6**RAJA060913-6**

Sample Name:	CAL6	Channel:	ECD_1
Sample Type:	standard	Control Program:	PerchlorateDX2
Recording Time:	05/08/2007 12:24	Quantif. Method:	PerchlorateDX2
Analyst:	raja	Dilution Factor:	1.0000

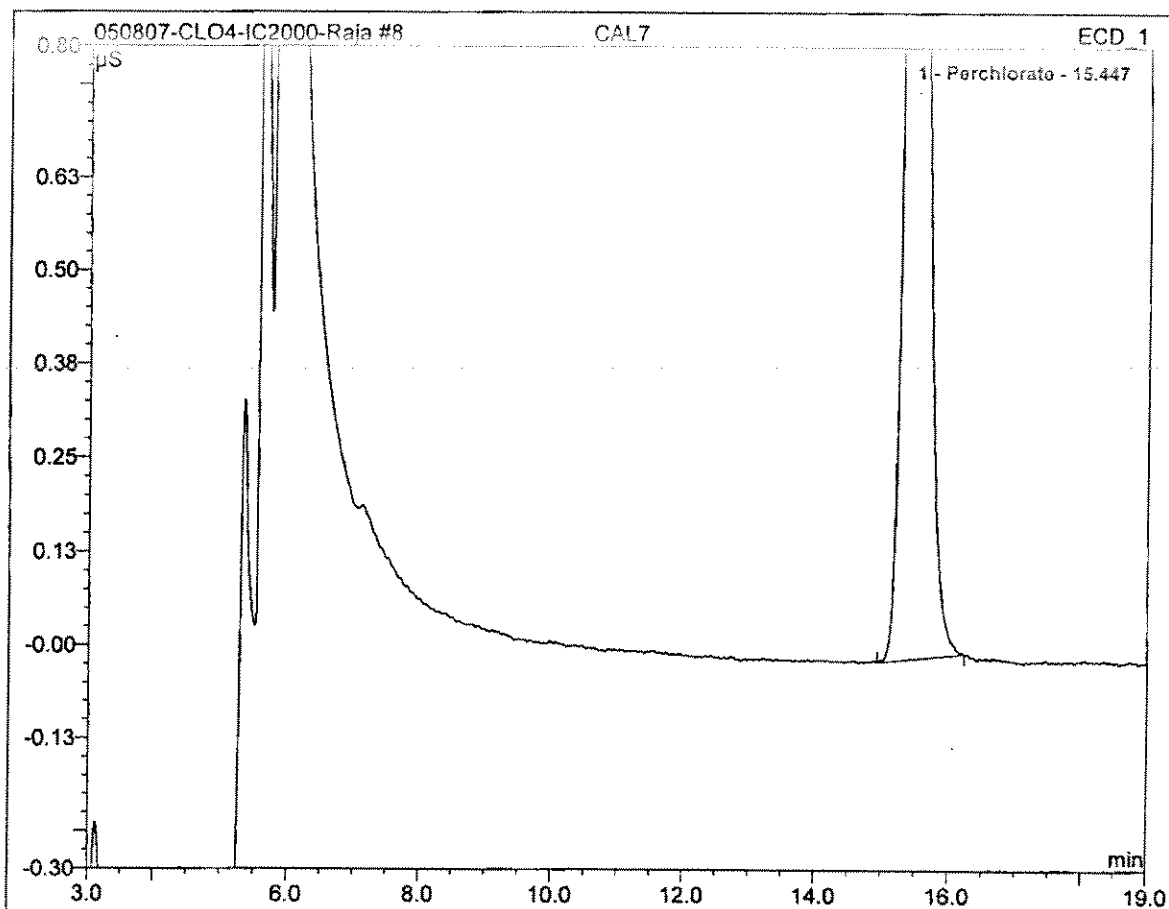


No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount ug/L	Type
1	15.48	Perchlorate	1.002	0.343	100.00	50.328	BMB
Total:			1.002	0.343	100.00	50.328	

8 CAL7**RAJA060913-7**

Sample Name: **CAL7**
Sample Type: **standard**
Recording Time: **05/08/2007 12:46**
Analyst: **raja**

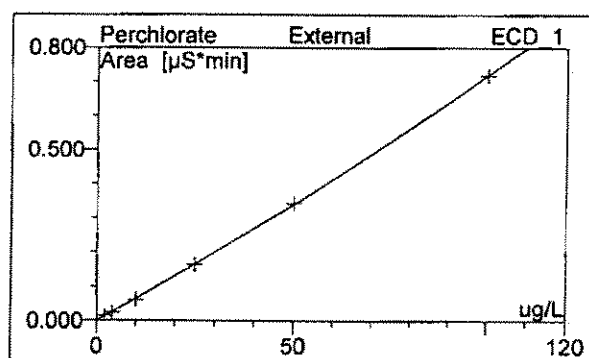
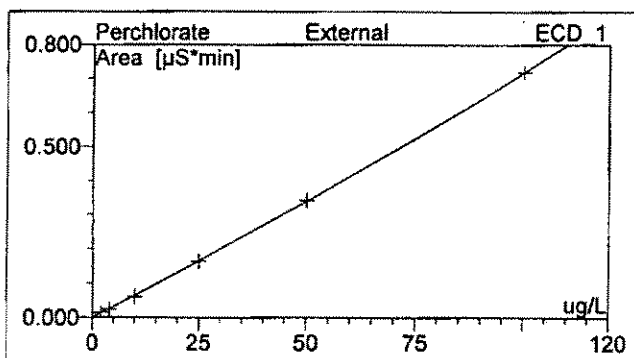
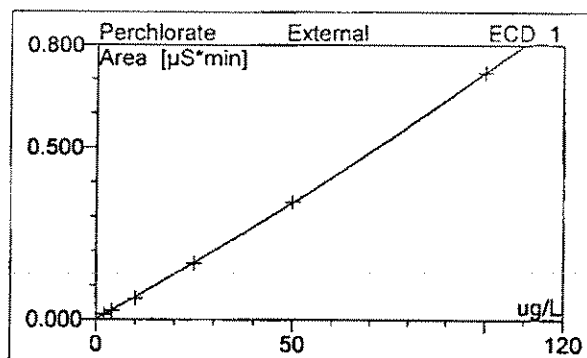
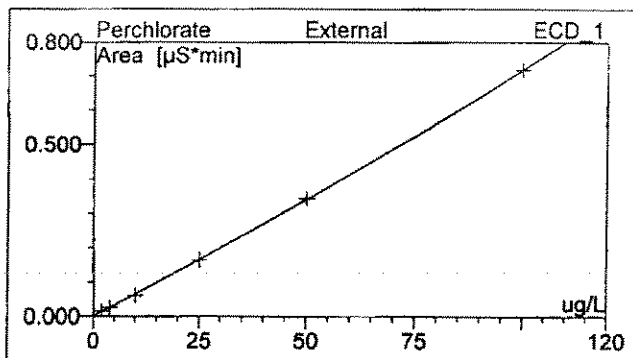
Channel: **ECD_1**
Control Program: **PerchlorateDX2**
Quantif. Method: **PerchlorateDX2**
Dilution Factor: **1.0000**



No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount ug/L	Type
1	15.45	Perchlorate	2.073	0.718	100.00	99.940	BMB
Total:			2.073	0.718	100.00	99.940	

8 CAL7**RAJA060913-7**

Sample Name:	CAL7	Injection Volume:	1000.0
Vial Number:	22	Channel:	ECD_1
Sample Type:	standard	Wavelength:	n.a.
Control Program:	PerchlorateDX2	Bandwidth:	n.a.
Quantif. Method:	PerchlorateDX2	Dilution Factor:	1.0000
Recording Time:	5/8/2007 12:46	Sample Weight:	1.0000
Run Time (min):	19.00	Sample Amount:	1.0000

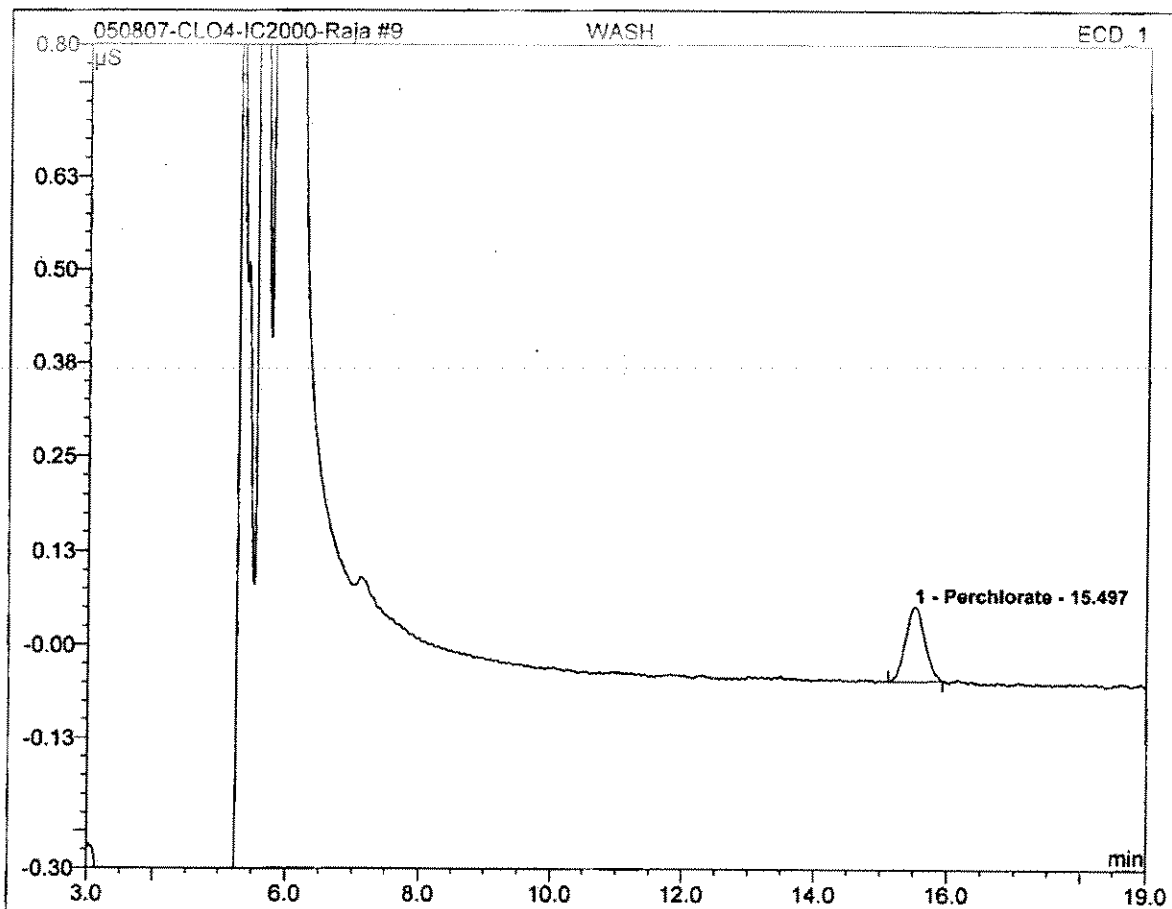


No.	Ret.Time min	Peak Name	Cal.Type	Points	Corr.Coeff. %	Offset	Slope	Curve
1	15.45	Perchlorate	Quad	6	99.9645	0.0000	0.0064	0.0000
Average:					99.9645	0.0000	0.0064	0.0000

9 WASH

Sample Name: **WASH**
Sample Type: **unknown**
Recording Time: **05/08/2007 14:47**
Analyst: **raja**

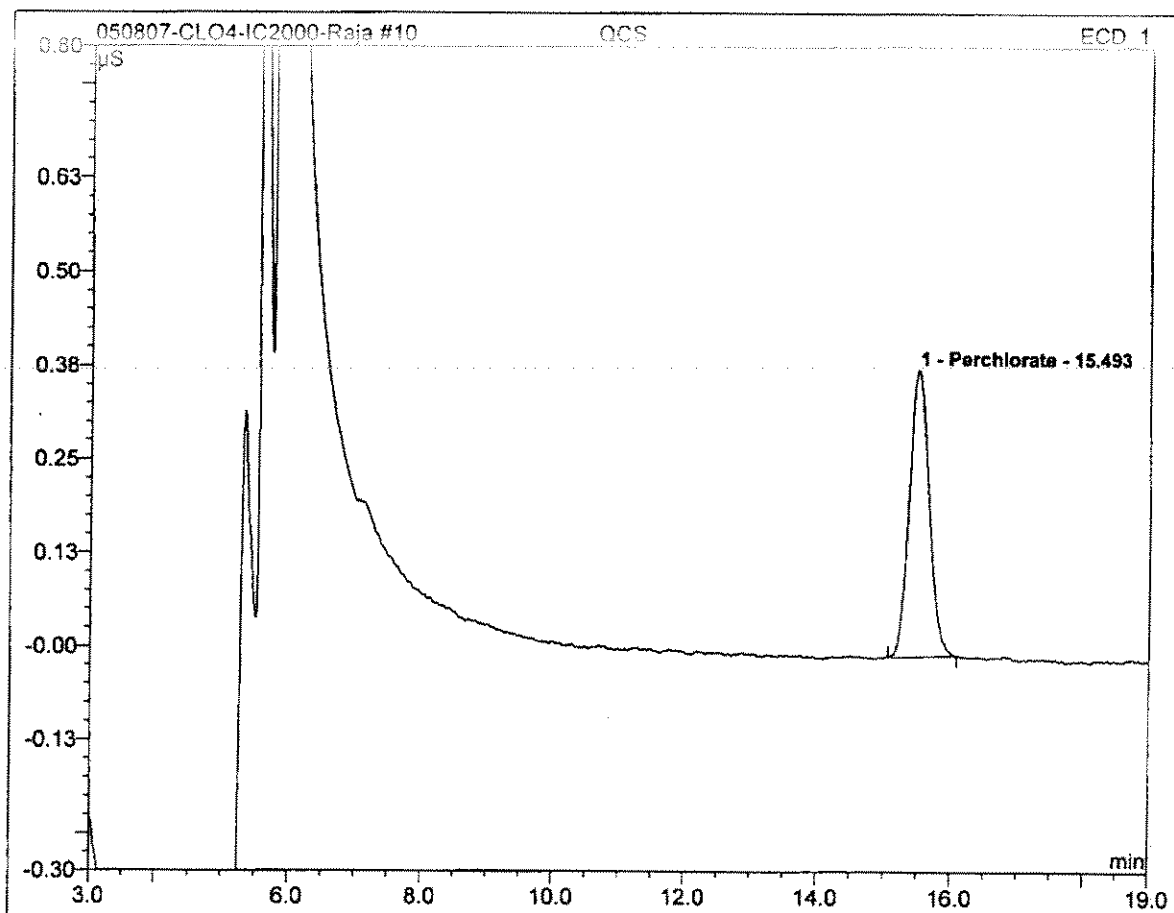
Channel: **ECD_1**
Control Program: **PerchlorateDX2**
Quantif. Method: **PerchlorateDX2**
Dilution Factor: **1.0000**



No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount ug/L	Type
1	15.50	Perchlorate	0.099	0.033	100.00	5.075	BMB
Total:			0.099	0.033	100.00	5.075	

10 QCS

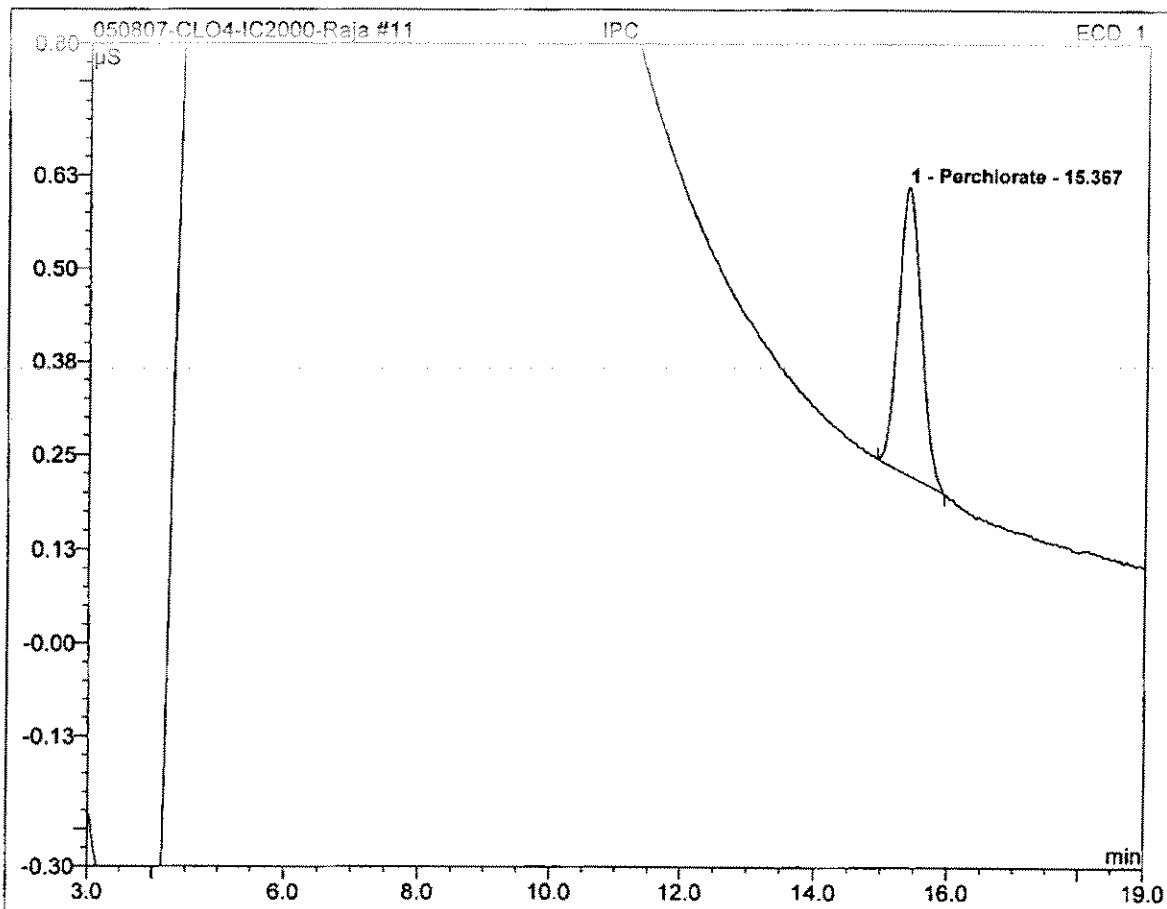
Sample Name:	QCS	Channel:	ECD_1
Sample Type:	unknown	Control Program:	PerchlorateDX2
Recording Time:	05/08/2007 15:08	Quantif. Method:	PerchlorateDX2
Analyst:	raja	Dilution Factor:	1.0000



No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Ref.Area %	Amount ug/L	Type
1	15.49	Perchlorate	0.384	0.131	100.00	19.934	BMB
Total:			0.384	0.131	100.00	19.934	

11 IPC

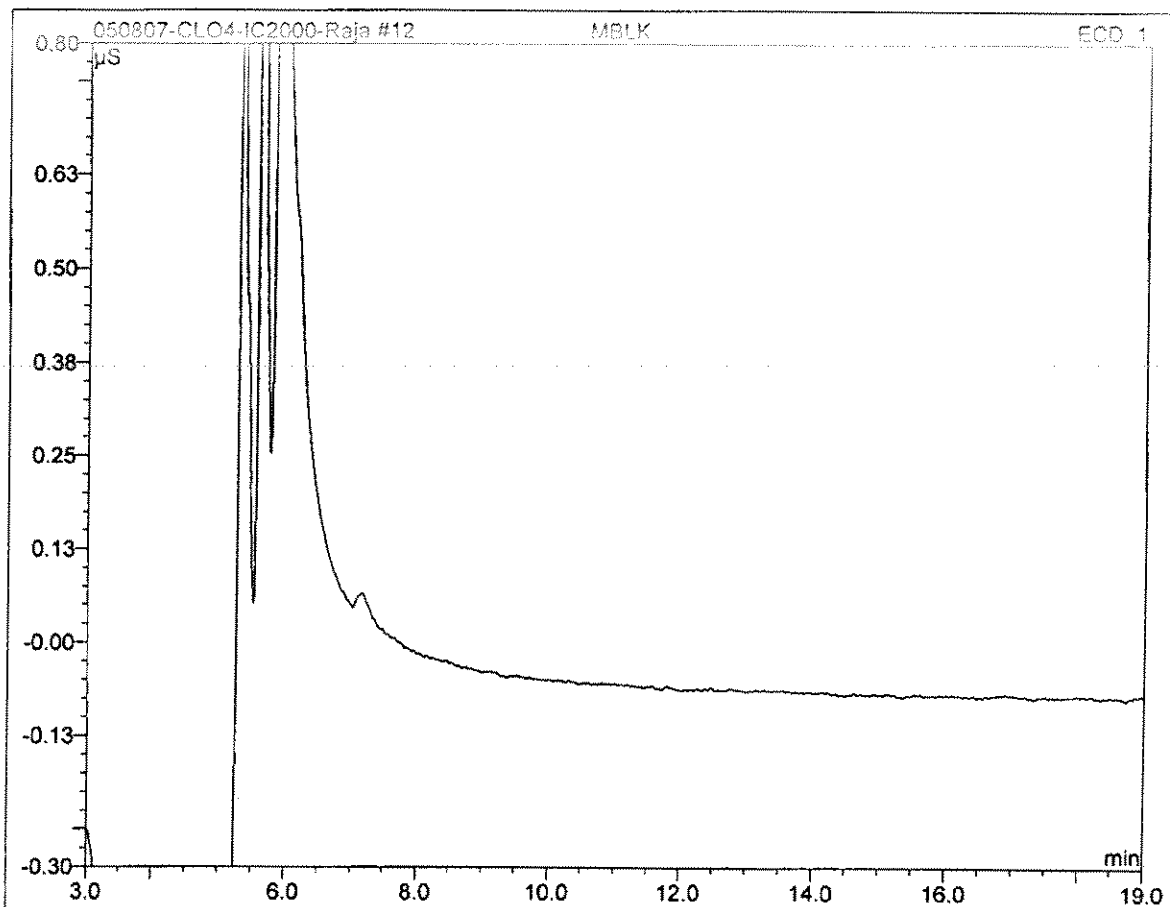
Sample Name:	IPC	Channel:	ECD_1
Sample Type:	unknown	Control Program:	PerchlorateDX2
Recording Time:	05/08/2007 15:30	Quantif. Method:	PerchlorateDX2
Analyst:	raja	Dilution Factor:	1.0000



No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount ug/L	Type
1	15.37	Perchlorate	0.386	0.153	100.00	23.224	BMB
Total:			0.386	0.153	100.00	23.224	

12 MBLK

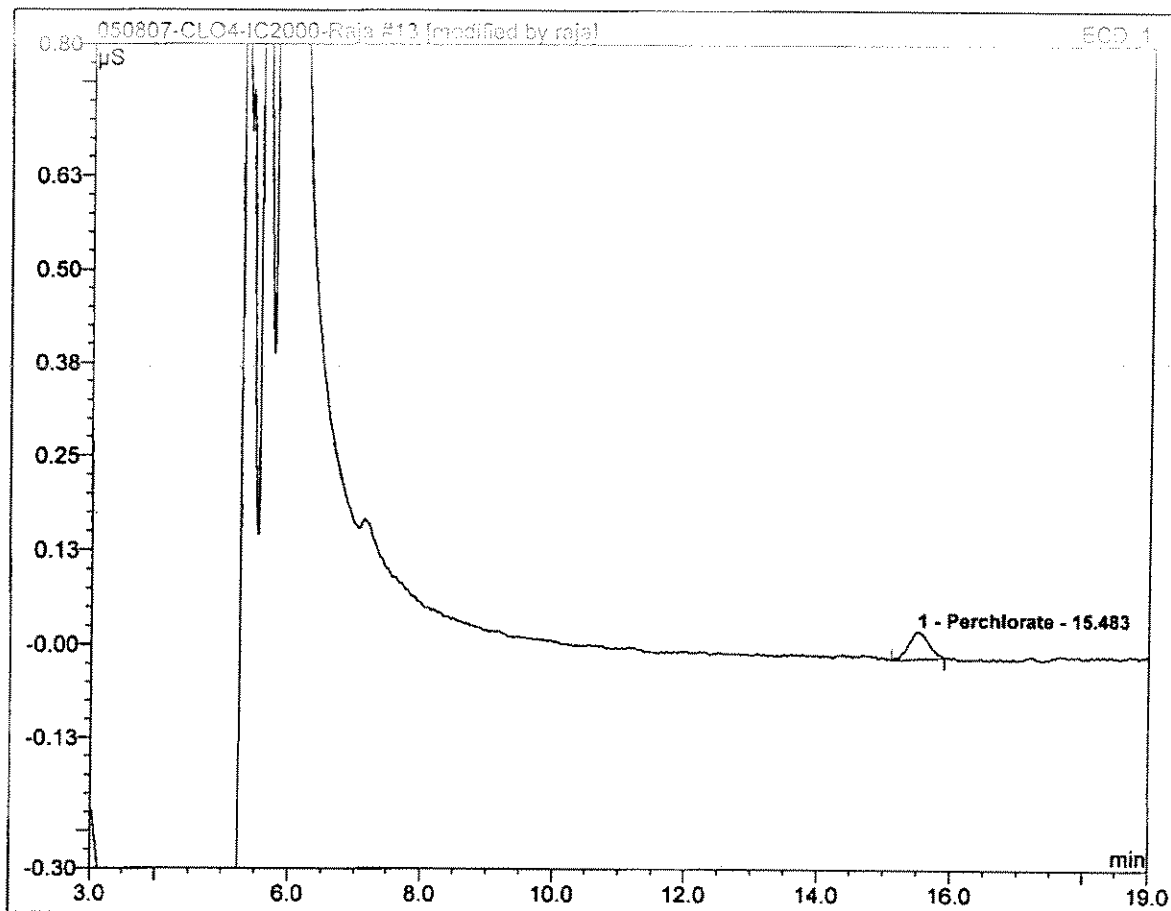
Sample Name:	MBLK	Channel:	ECD_1
Sample Type:	unknown	Control Program:	PerchlorateDX2
Recording Time:	05/08/2007 15:51	Quantif. Method:	PerchlorateDX2
Analyst:	raja	Dilution Factor:	1.0000



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ug/L	Type
Total:			0.000	0.000	0.00	0.000	

13 MRL-2

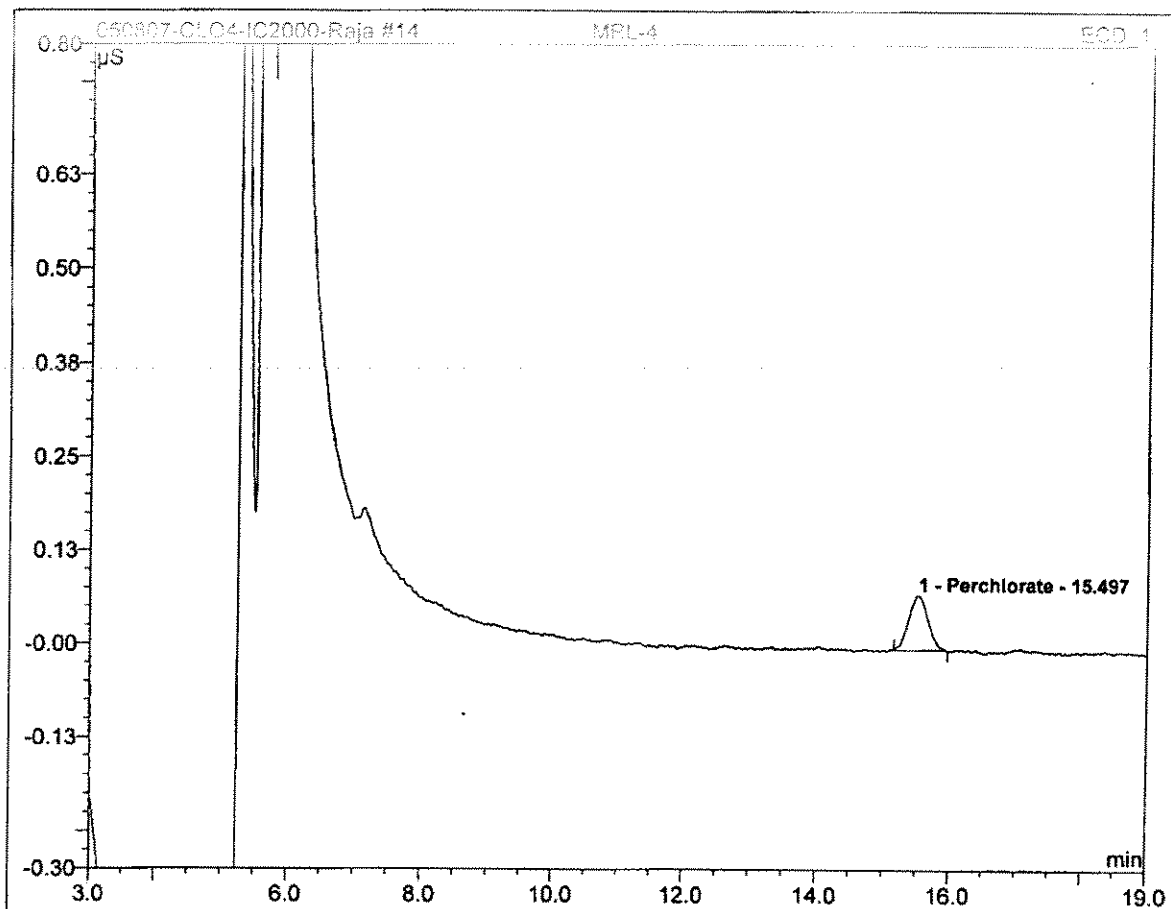
Sample Name:	MRL-2	Channel:	ECD_1
Sample Type:	unknown	Control Program:	PerchlorateDX2
Recording Time:	05/08/2007 16:13	Quantif. Method:	PerchlorateDX2
Analyst:	raja	Dilution Factor:	1.0000



No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount ug/L	Type
1	15.48	Perchlorate	0.036	0.013	100.00	1.949	BMB*
Total:			0.036	0.013	100.00	1.949	

14 MRL-4

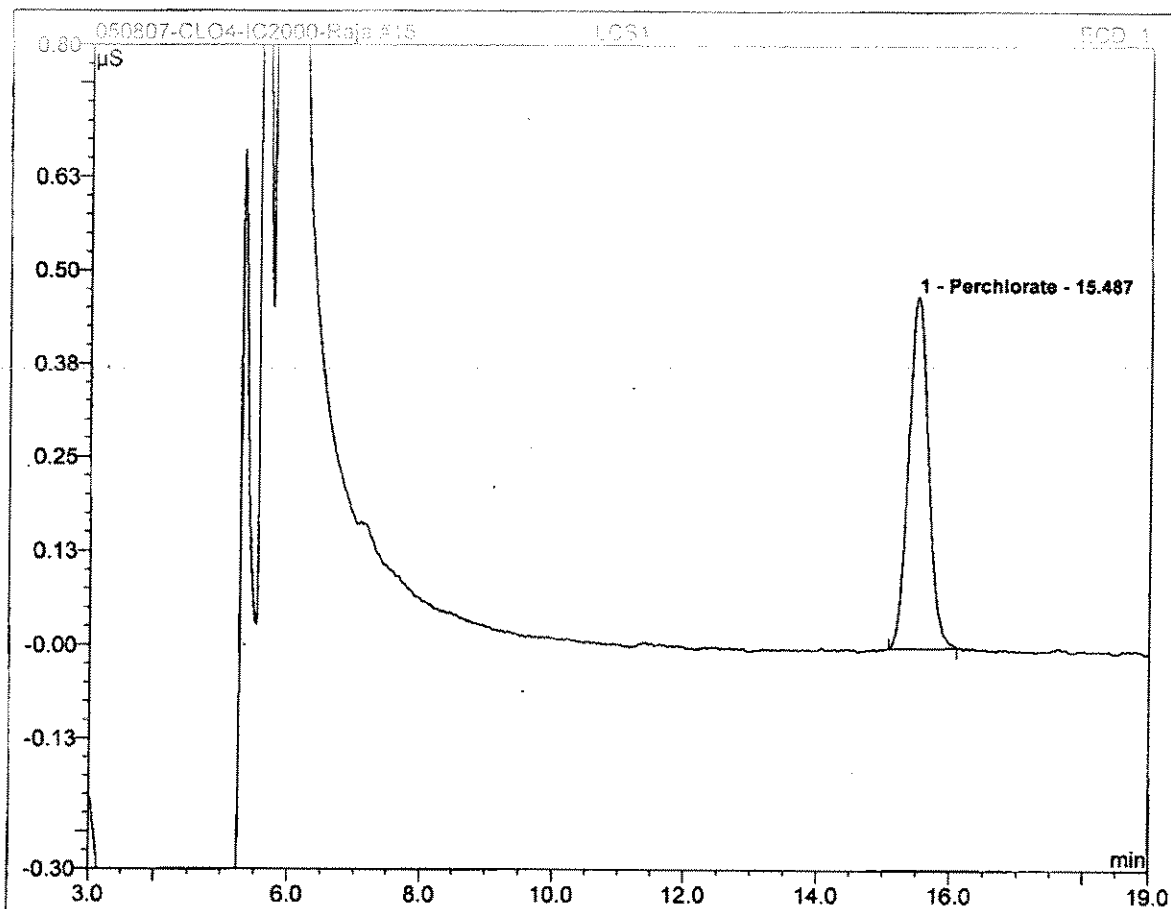
Sample Name:	MRL-4	Channel:	ECD_1
Sample Type:	unknown	Control Program:	PerchlorateDX2
Recording Time:	05/08/2007 16:34	Quantif. Method:	PerchlorateDX2
Analyst:	raja	Dilution Factor:	1.0000



No.	Ret. Time min	Peak Name	Height µS	Area µS*min	Rel. Area %	Amount ug/L	Type
1	15.50	Perchlorate	0.073	0.024	100.00	3.780	BMB
Total:			0.073	0.024	100.00	3.780	

15 LCS1

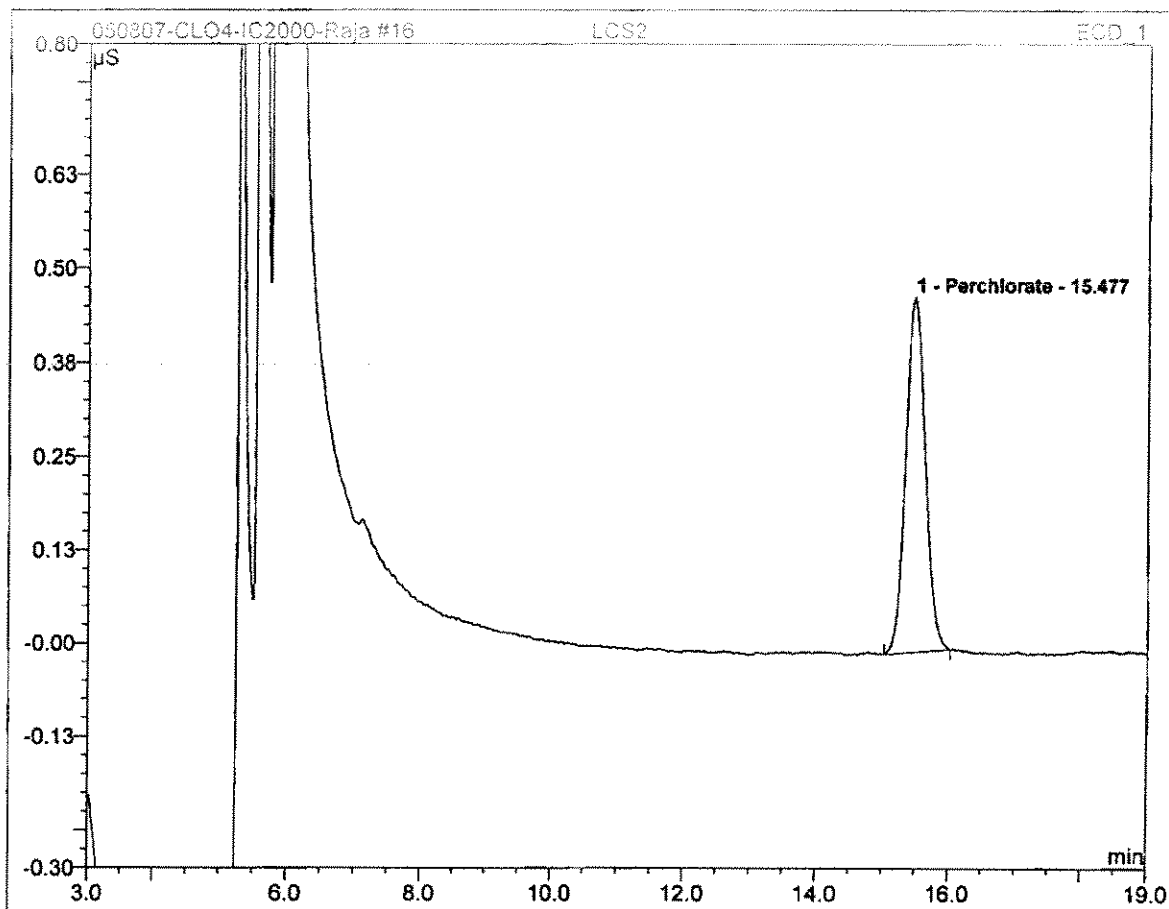
Sample Name:	LCS1	Channel:	ECD_1
Sample Type:	unknown	Control Program:	PerchlorateDX2
Recording Time:	05/08/2007 16:56	Quantif. Method:	PerchlorateDX2
Analyst:	raja	Dilution Factor:	1.0000



No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount ug/L	Type
1	15.49	Perchlorate	0.470	0.161	100.00	24.327	BMB
Total:			0.470	0.161	100.00	24.327	

16 LCS2

Sample Name:	LCS2	Channel:	ECD_1
Sample Type:	unknown	Control Program:	PerchlorateDX2
Recording Time:	05/08/2007 17:17	Quantif. Method:	PerchlorateDX2
Analyst:	raja	Dilution Factor:	1.0000

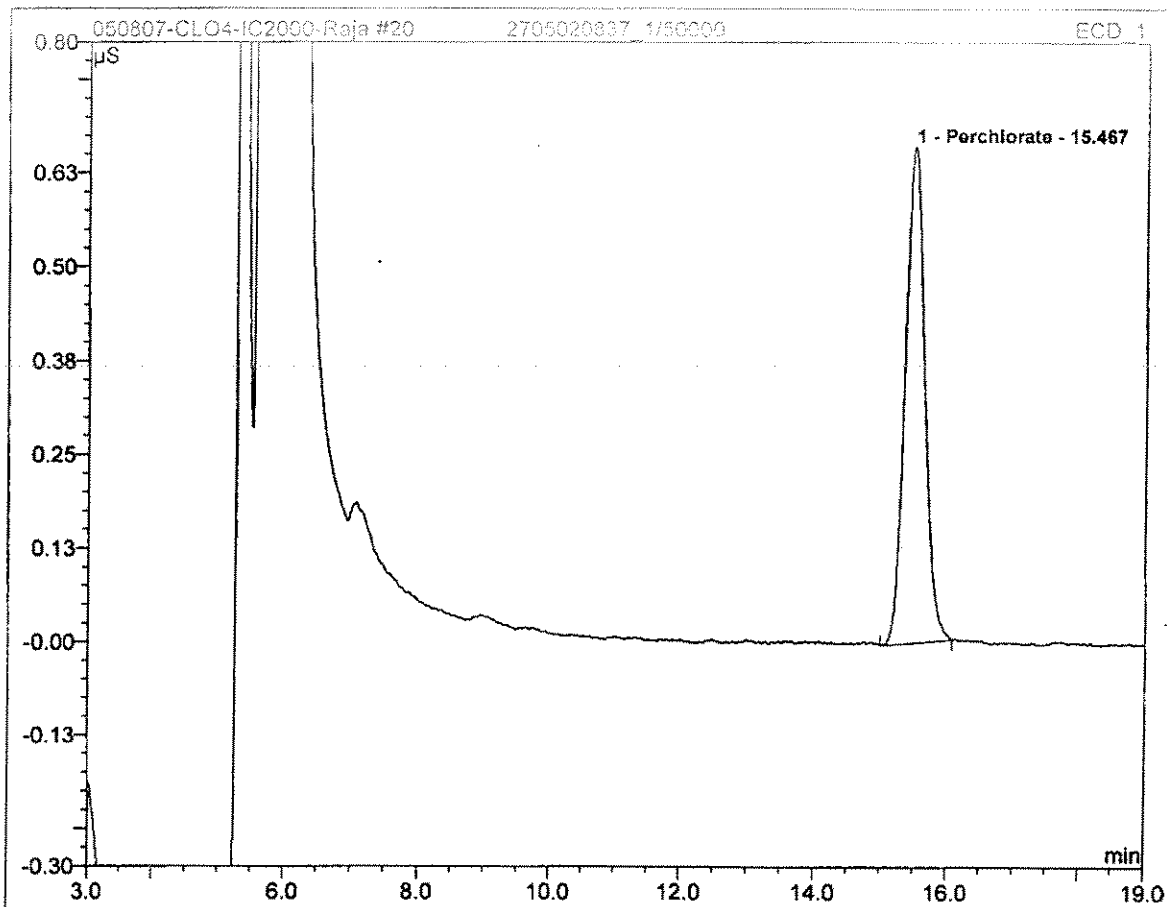


No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount ug/L	Type
1	15.48	Perchlorate	0.475	0.162	100.00	24.430	BMB
Total:			0.475	0.162	100.00	24.430	

20 2705020837_1/50000

Sample Name: 2705020837_1/50000
Sample Type: unknown
Recording Time: 05/08/2007 18:42
Analyst: raja

Channel: ECD_1
Control Program: PerchlorateDX2
Quantif. Method: PerchlorateDX2
Dilution Factor: 50000.0000

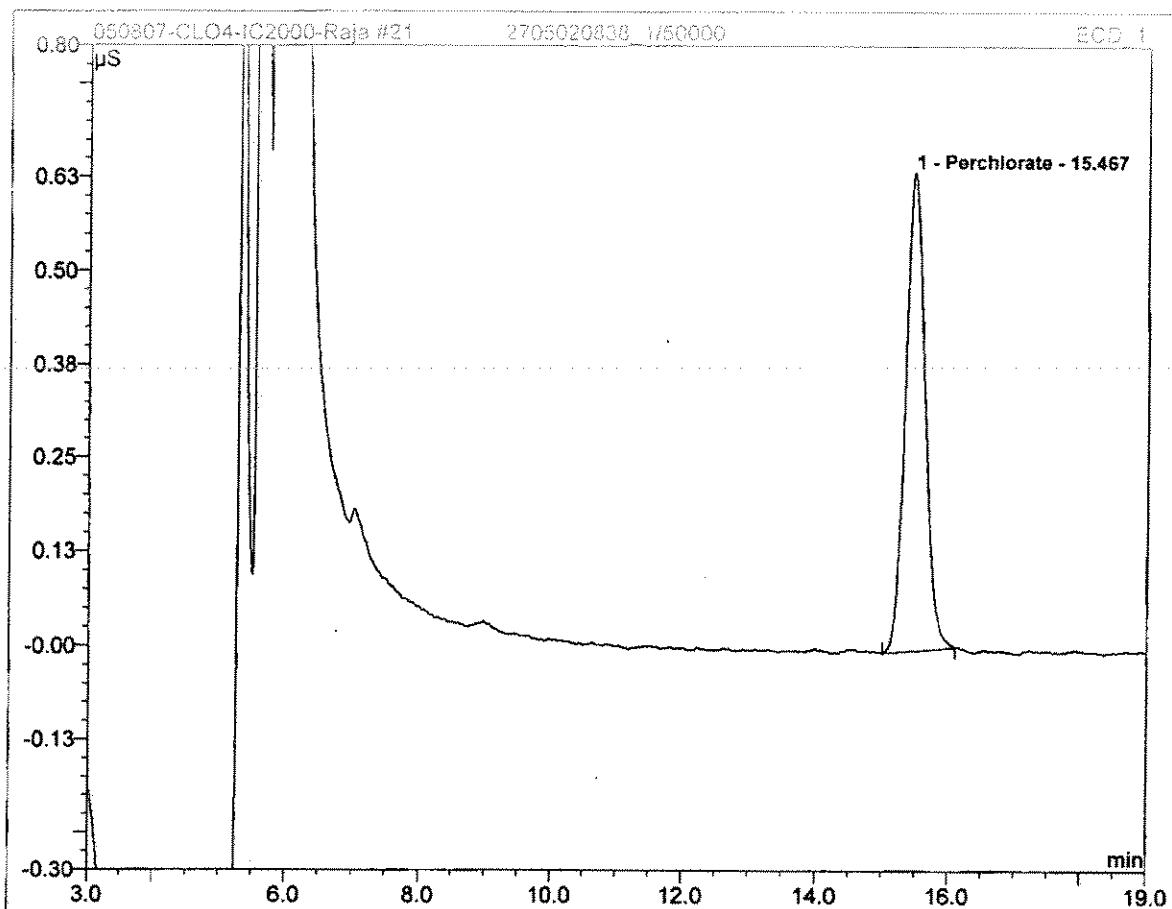


No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount ug/L	Type
1	15.47	Perchlorate	0.661	0.225	100.00	1687140.845	BMB
Total:			0.661	0.225	100.00	1687140.845	

21 2705020838_1/50000

Sample Name: 2705020838_1/50000
Sample Type: unknown
Recording Time: 05/08/2007 19:04
Analyst: raja

Channel: ECD_1
Control Program: PerchlorateDX2
Quantif. Method: PerchlorateDX2
Dilution Factor: 50000.0000

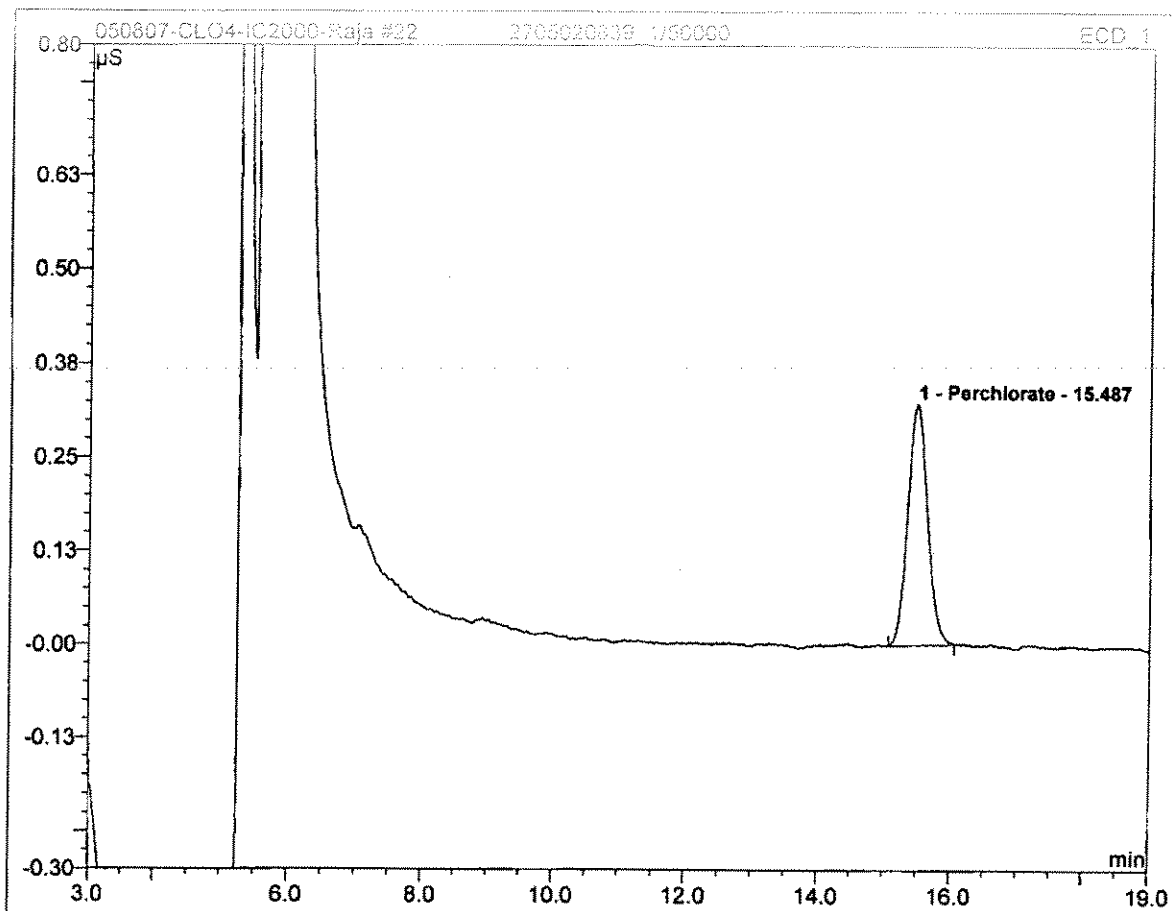


No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount ug/L	Type
1	15.47	Perchlorate	0.637	0.217	100.00	1627243.177	BMB
Total:			0.637	0.217	100.00	1627243.177	

22 2705020839_1/50000

Sample Name: 2705020839_1/50000
Sample Type: unknown
Recording Time: 05/08/2007 19:25
Analyst: raja

Channel: ECD_1
Control Program: PerchlorateDX2
Quantif. Method: PerchlorateDX2
Dilution Factor: 50000.0000

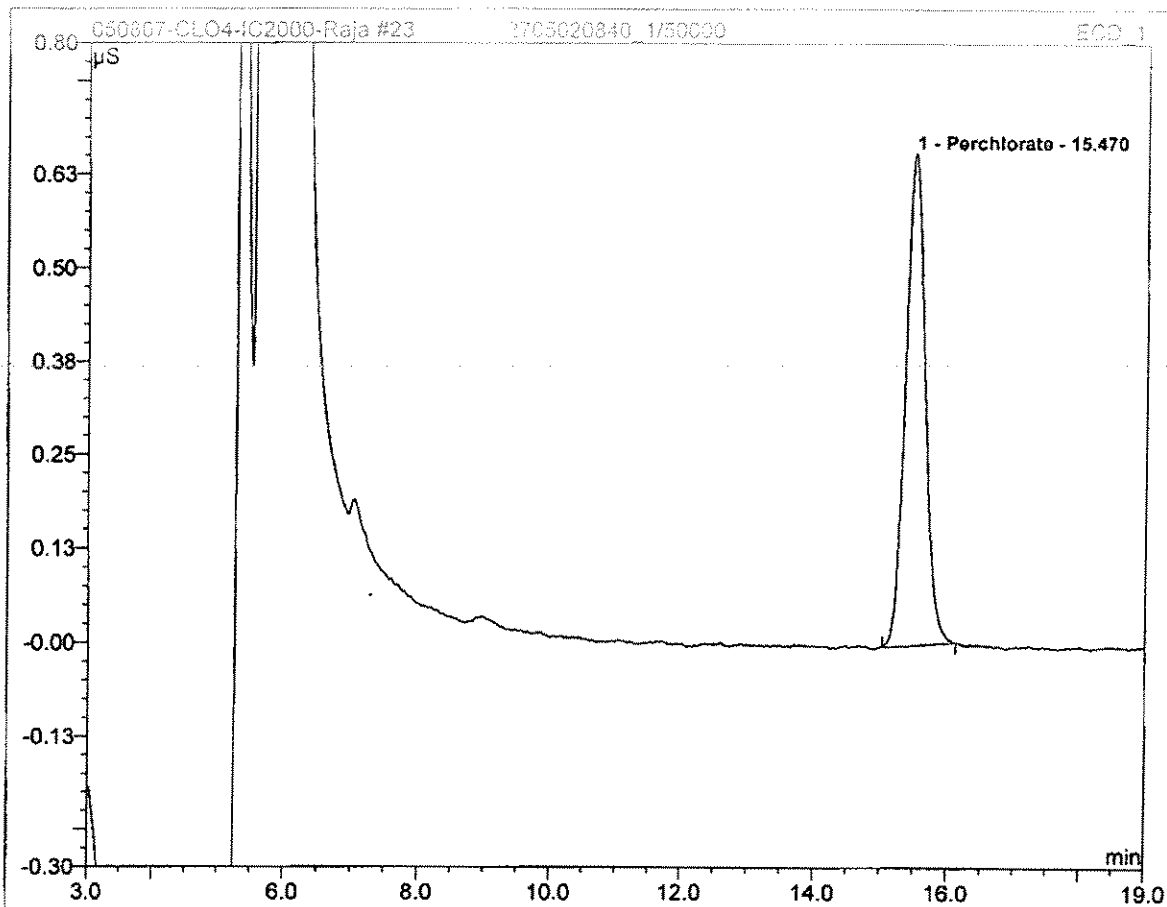


No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount ug/L	Type
1	15.49	Perchlorate	0.324	0.110	100.00	841612.177	BMB
Total:			0.324	0.110	100.00	841612.177	

23 2705020840_1/50000

Sample Name: 2705020840_1/50000
Sample Type: unknown
Recording Time: 05/08/2007 19:46
Analyst: raja

Channel: ECD_1
Control Program: PerchlorateDX2
Quantif. Method: PerchlorateDX2
Dilution Factor: 50000.0000

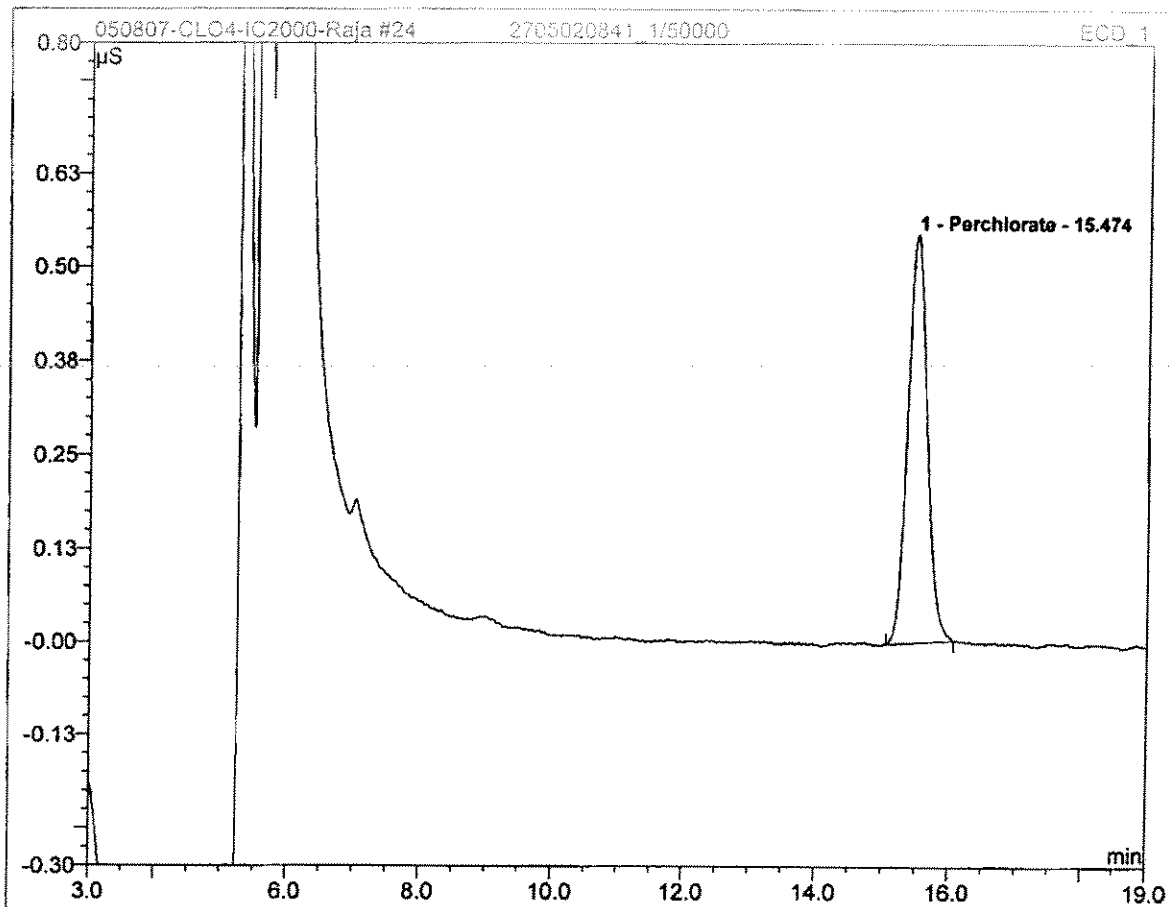


No.	Ret. Time min	Peak Name	Height μS	Area μS*min	Rel. Area %	Amount ug/L	Type
1	15.47	Perchlorate	0.657	0.223	100.00	1671834.590	BMB
Total:			0.657	0.223	100.00	1671834.590	

24 2705020841_1/50000

Sample Name: 2705020841_1/50000
Sample Type: unknown
Recording Time: 05/08/2007 20:08
Analyst: raja

Channel: ECD_1
Control Program: PerchlorateDX2
Quantif. Method: PerchlorateDX2
Dilution Factor: 50000.0000

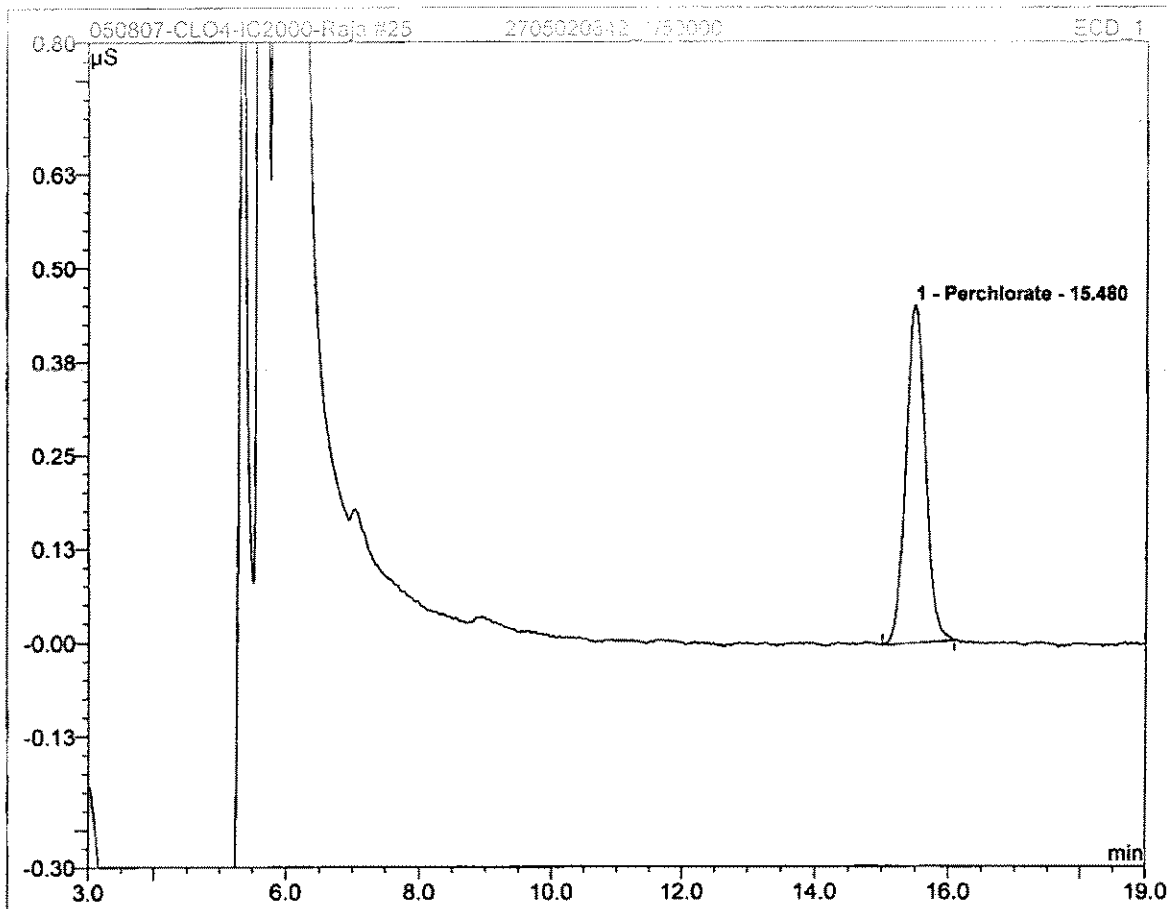


No.	Ret. Time min	Peak Name	Height μS	Area μS*min	Rel. Area %	Amount ug/L	Type
1	15.47	Perchlorate	0.545	0.184	100.00	1389891.698	BMB
Total:			0.545	0.184	100.00	1389891.698	

25 2705020842_1/50000

Sample Name: 2705020842_1/50000
Sample Type: unknown
Recording Time: 05/08/2007 20:29
Analyst: raja

Channel: ECD_1
Control Program: PerchlorateDX2
Quantif. Method: PerchlorateDX2
Dilution Factor: 50000.0000

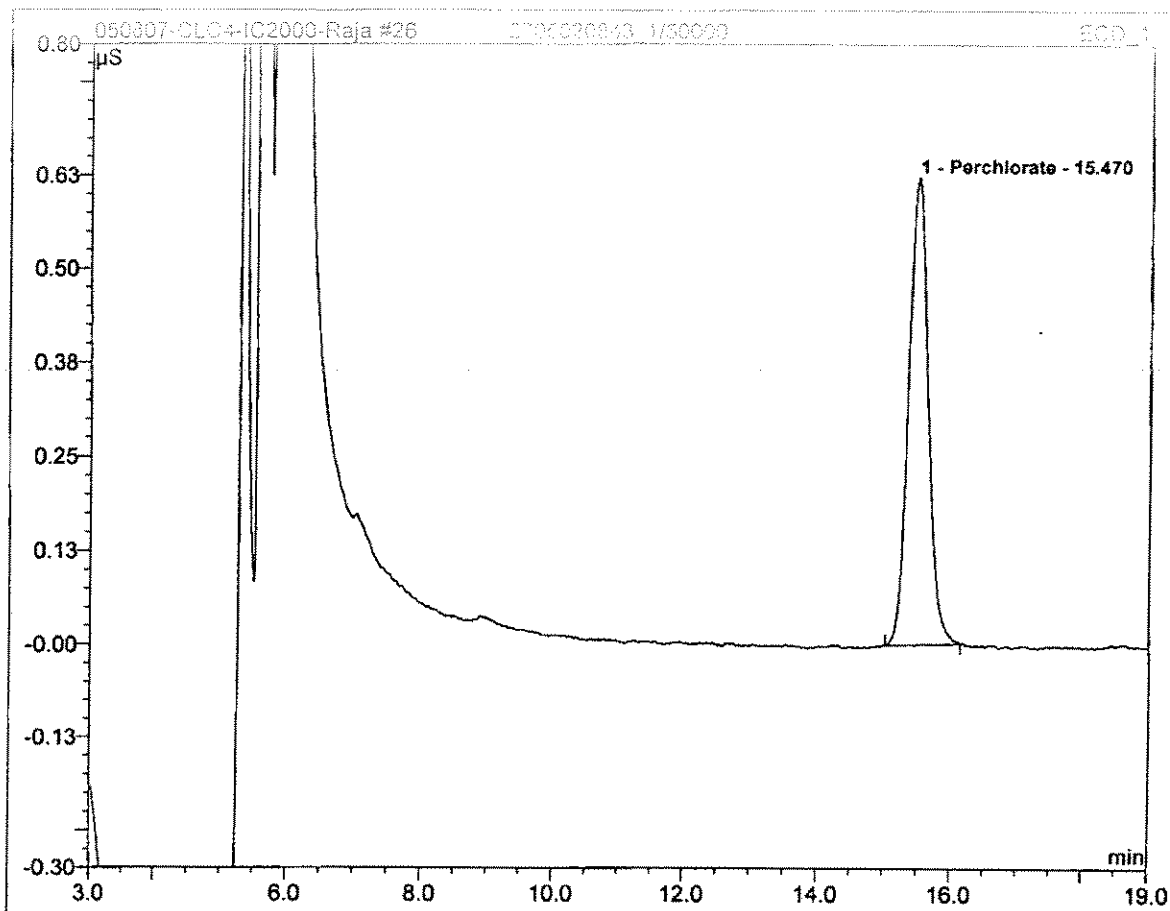


No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount ug/L	Type
1	15.48	Perchlorate	0.452	0.155	100.00	1170216.874	BMB
Total:			0.452	0.155	100.00	1170216.874	

26 2705020843_1/50000

Sample Name: 2705020843_1/50000
Sample Type: unknown
Recording Time: 05/08/2007 20:51
Analyst: raja

Channel: ECD_1
Control Program: PerchlorateDX2
Quantif. Method: PerchlorateDX2
Dilution Factor: 50000.0000

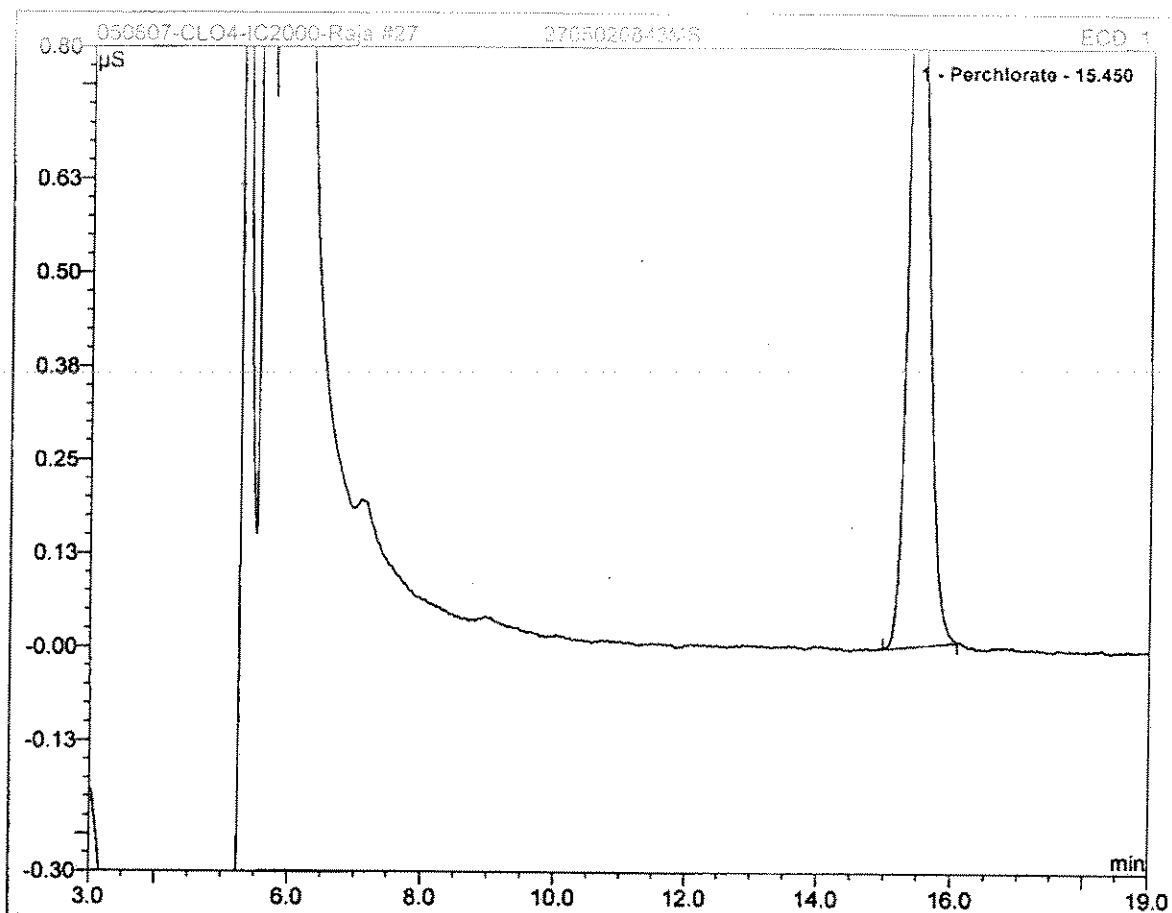


No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount ug/L	Type
1	15.47	Perchlorate	0.622	0.212	100.00	1589442.813	BMB
Total:			0.622	0.212	100.00	1589442.813	

27 2705020843MS

Sample Name: 2705020843MS
Sample Type: unknown
Recording Time: 05/08/2007 21:12
Analyst: raja

Channel: ECD_1
Control Program: PerchlorateDX2
Quantif. Method: PerchlorateDX2
Dilution Factor: 1.0000

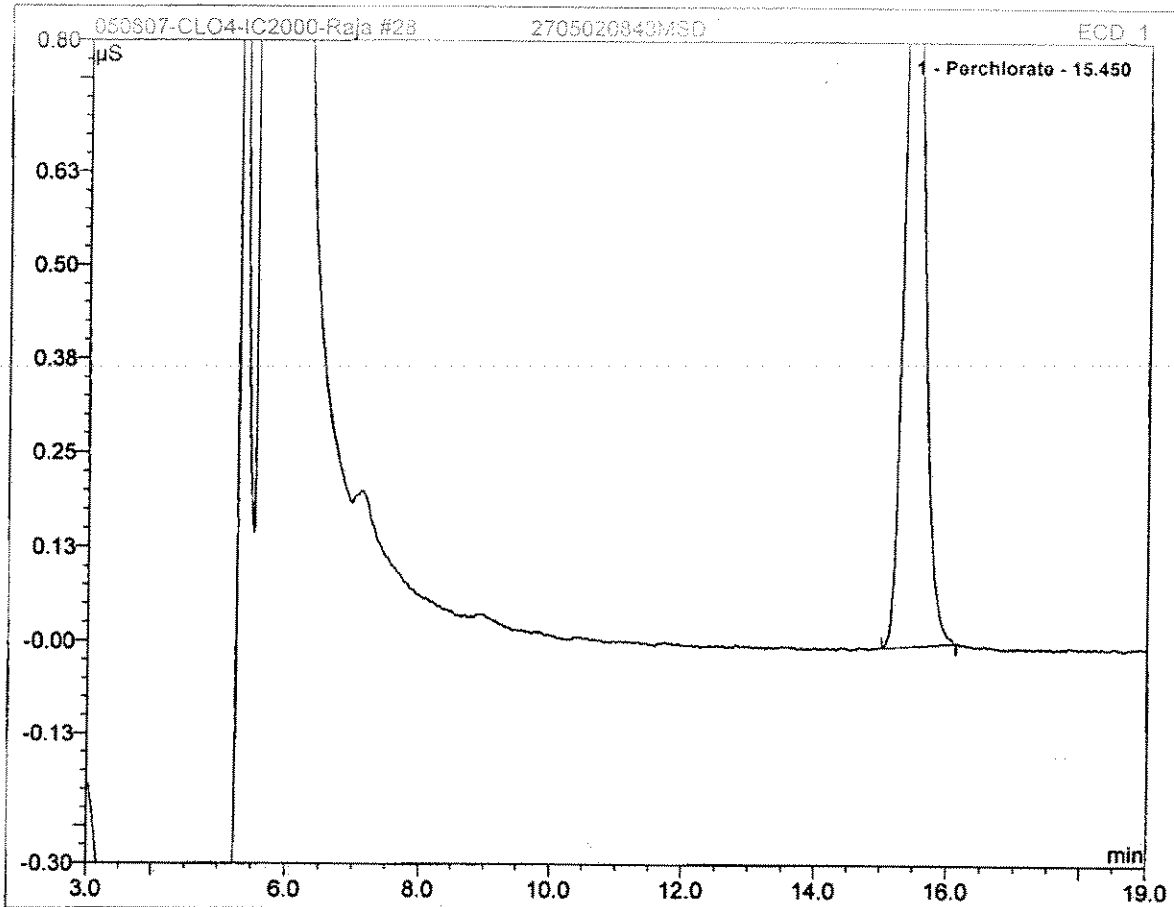


No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount ug/L	Type
1	15.45	Perchlorate	1.112	0.376	100.00	54.889	BMB
Total:			1.112	0.376	100.00	54.889	

28 2705020843MSD

Sample Name: 2705020843MSD
Sample Type: unknown
Recording Time: 05/08/2007 21:34
Analyst: raja

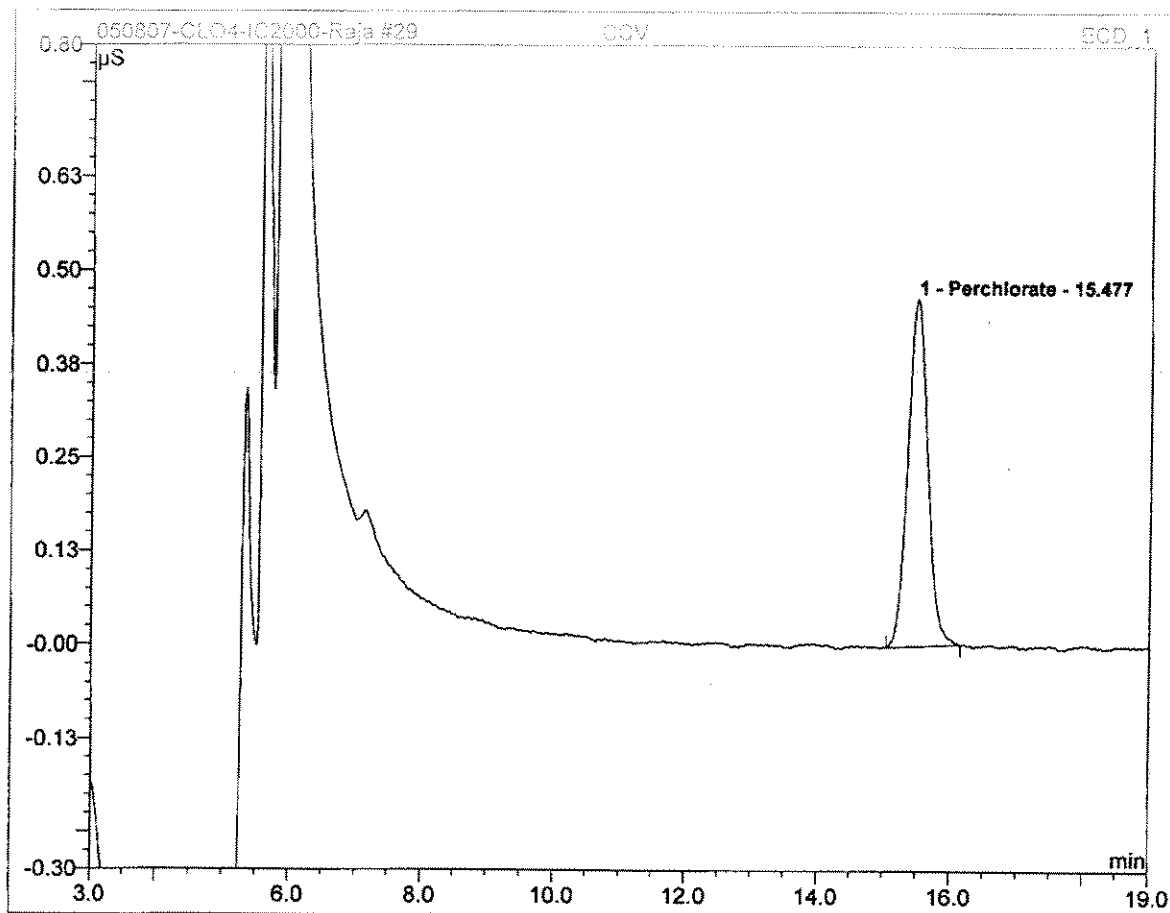
Channel: ECD_1
Control Program: PerchlorateDX2
Quantif. Method: PerchlorateDX2
Dilution Factor: 1.0000



No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount ug/L	Type
1	15.45	Perchlorate	1.110	0.375	100.00	54.766	BMB
Total:			1.110	0.375	100.00	54.766	

29 CCV

Sample Name:	CCV	Channel:	ECD_1
Sample Type:	unknown	Control Program:	PerchlorateDX2
Recording Time:	05/08/2007 21:55	Quantif. Method:	PerchlorateDX2
Analyst:	raja	Dilution Factor:	1.0000

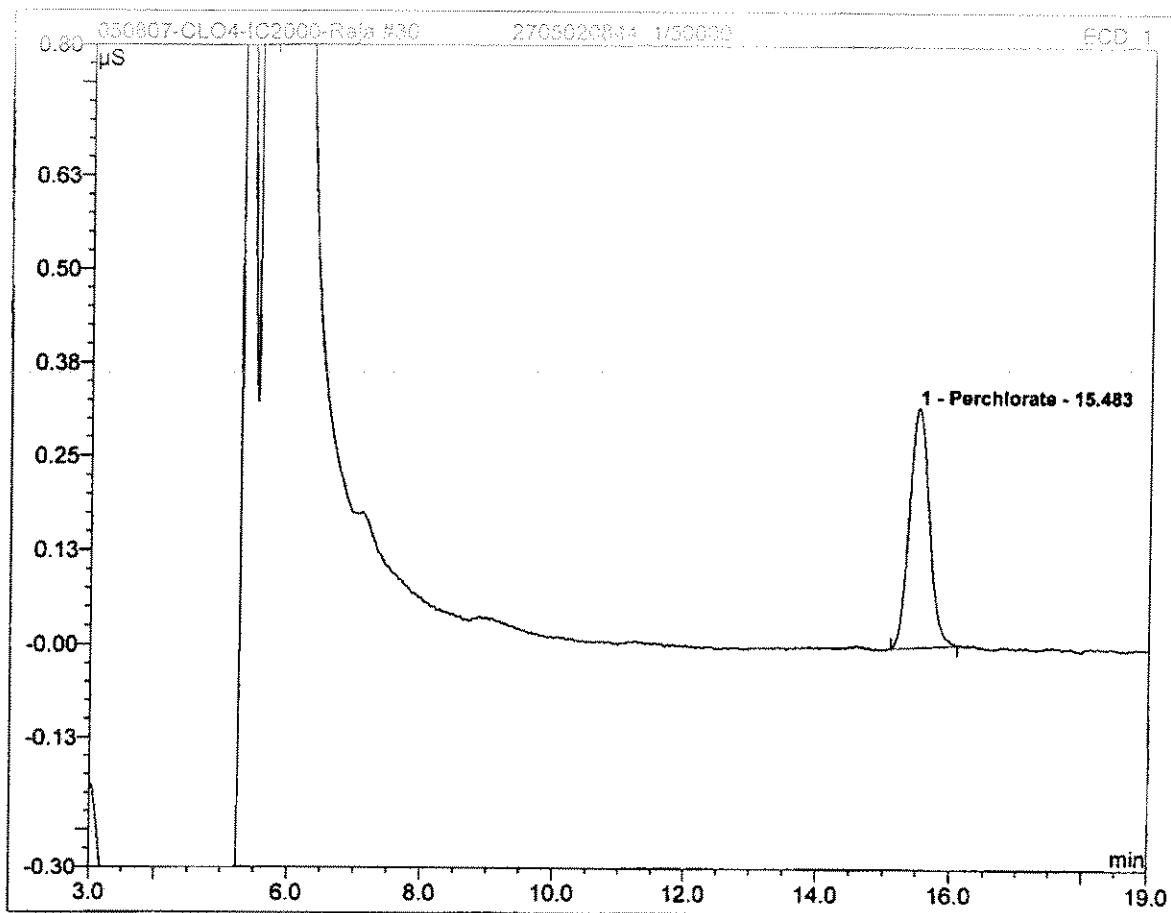


No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount ug/L	Type
1	15.48	Perchlorate	0.465	0.159	100.00	24.020	BMB
Total:			0.465	0.159	100.00	24.020	

30 2705020844_1/50000

Sample Name: 2705020844_1/50000
Sample Type: unknown
Recording Time: 05/08/2007 22:16
Analyst: raja

Channel: ECD_1
Control Program: PerchlorateDX2
Quantif. Method: PerchlorateDX2
Dilution Factor: 50000.0000

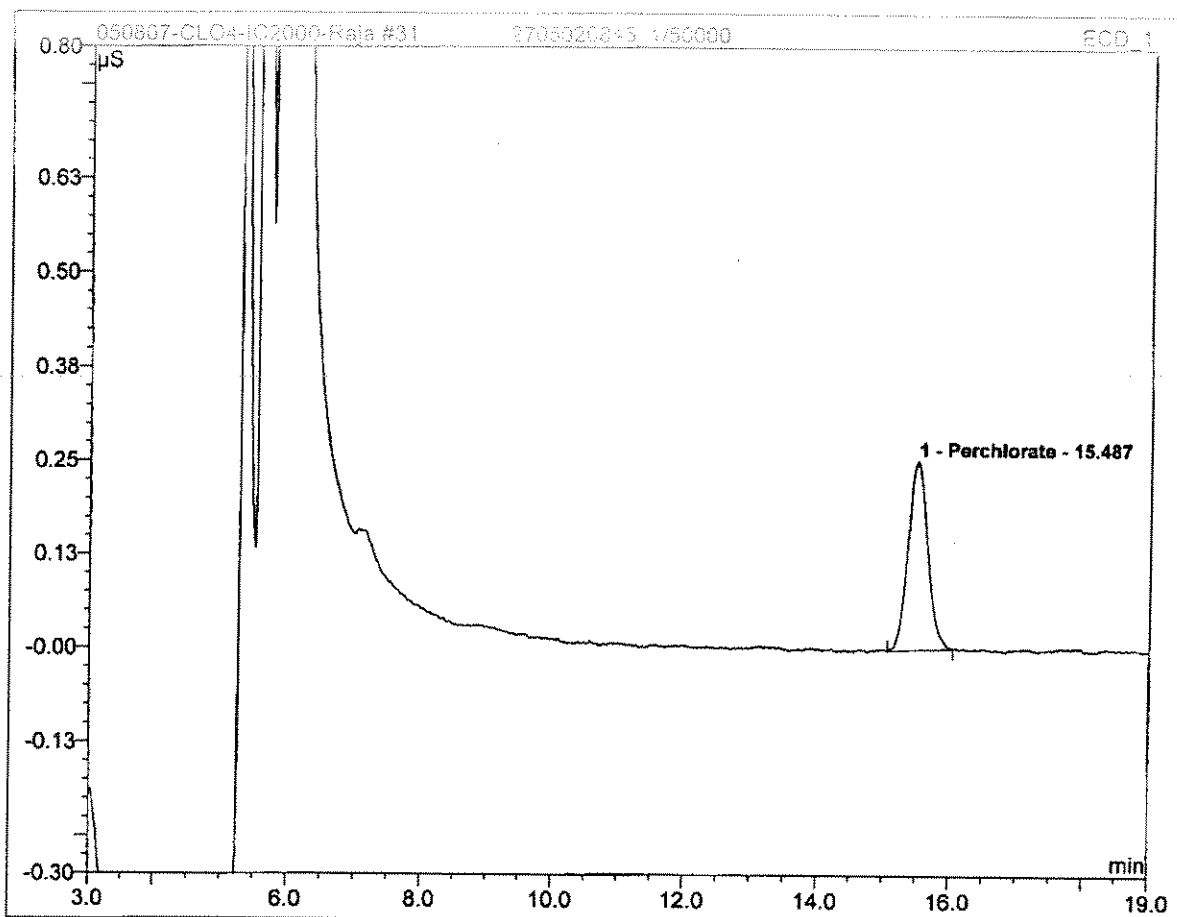


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ug/L	Type
1	15.48	Perchlorate	0.318	0.109	100.00	834599.029	BMB
Total:			0.318	0.109	100.00	834599.029	

31 2705020845_1/50000

Sample Name: 2705020845_1/50000
Sample Type: unknown
Recording Time: 05/08/2007 22:38
Analyst: raja

Channel: ECD_1
Control Program: PerchlorateDX2
Quantif. Method: PerchlorateDX2
Dilution Factor: 50000.0000

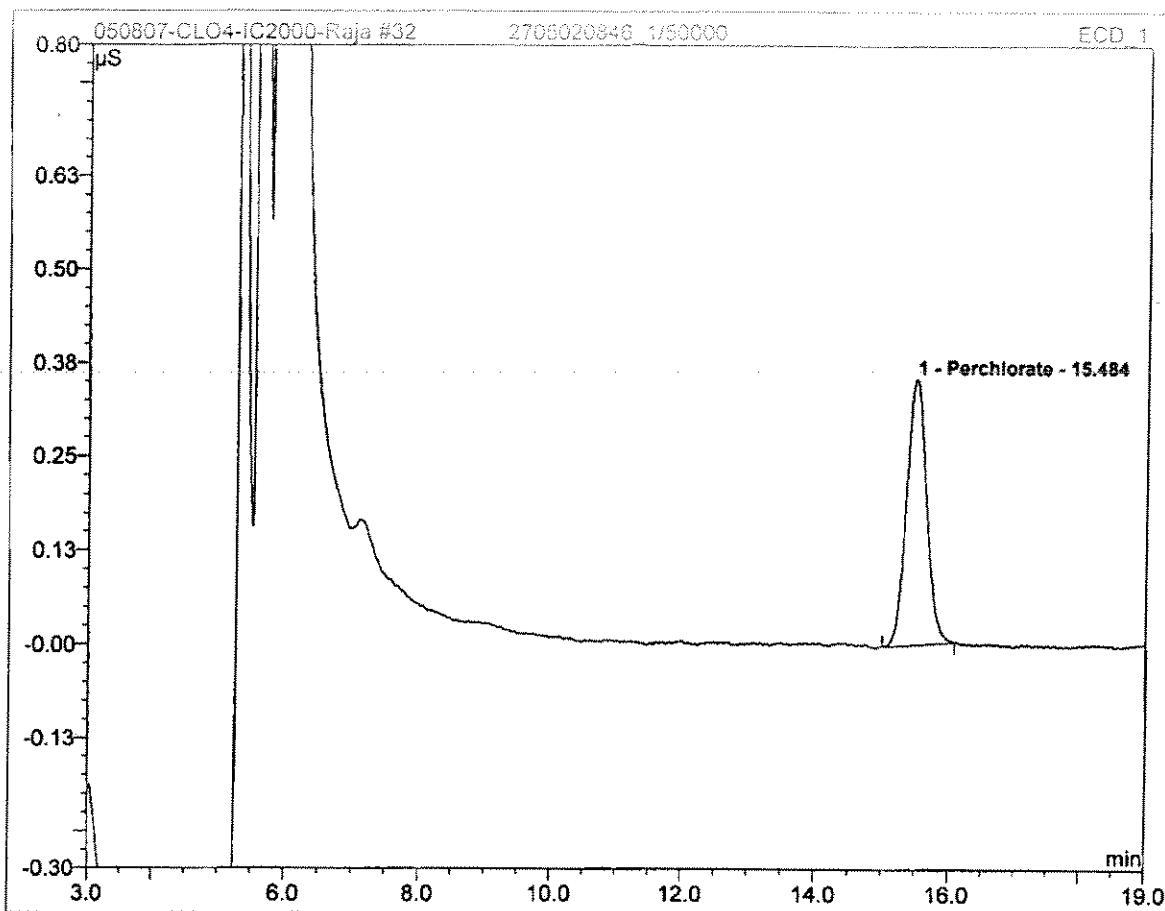


No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount ug/L	Type
1	15.49	Perchlorate	0.254	0.086	100.00	659816.166	BMB
Total:			0.254	0.086	100.00	659816.166	

32 2705020846_1/50000

Sample Name: 2705020846_1/50000
Sample Type: unknown
Recording Time: 05/08/2007 22:59
Analyst: raja

Channel: ECD_1
Control Program: PerchlorateDX2
Quantif. Method: PerchlorateDX2
Dilution Factor: 50000.0000

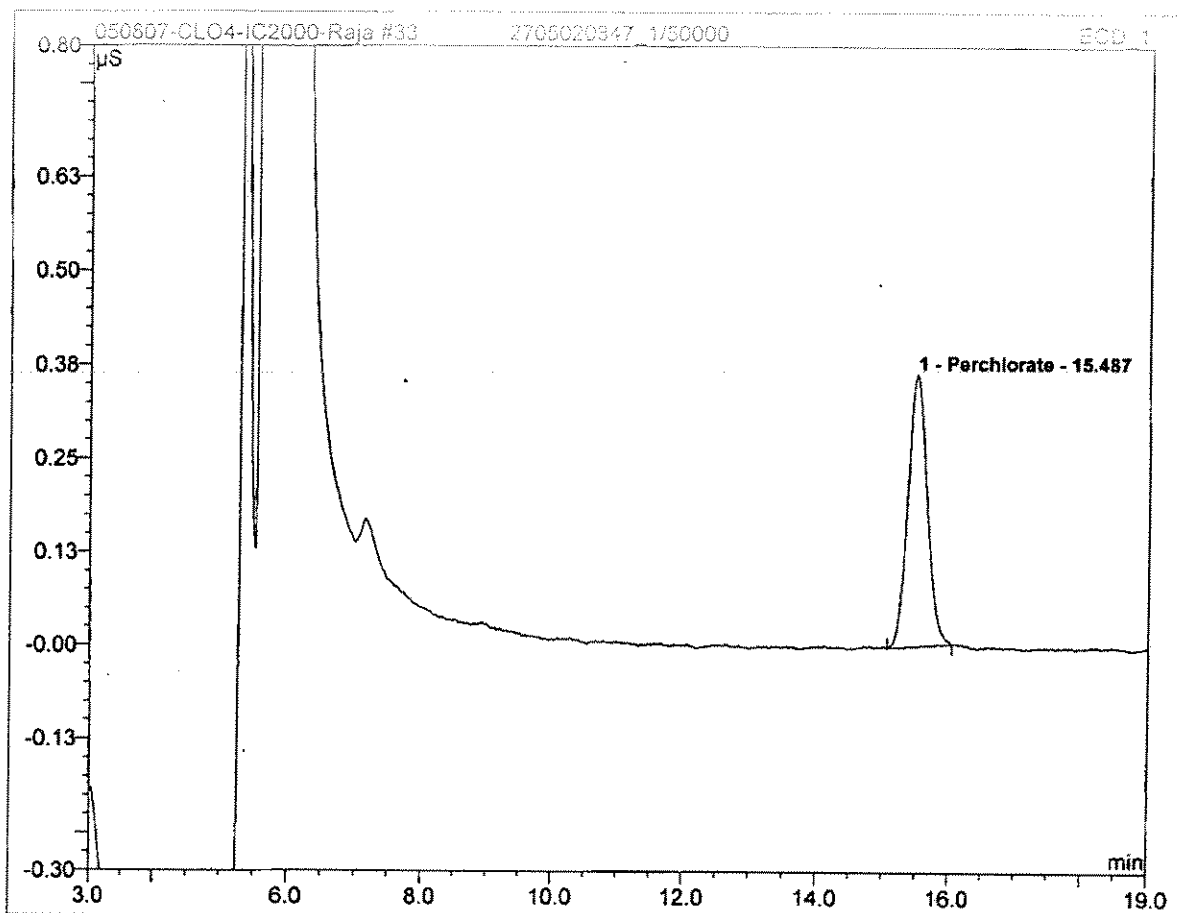


No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount ug/L	Type
1	15.48	Perchlorate	0.355	0.123	100.00	936036.573	BMB
Total:			0.355	0.123	100.00	936036.573	

33 2705020847_1/50000

Sample Name: 2705020847_1/50000
Sample Type: unknown
Recording Time: 05/08/2007 23:20
Analyst: raja

Channel: ECD_1
Control Program: PerchlorateDX2
Quantif. Method: PerchlorateDX2
Dilution Factor: 50000.0000

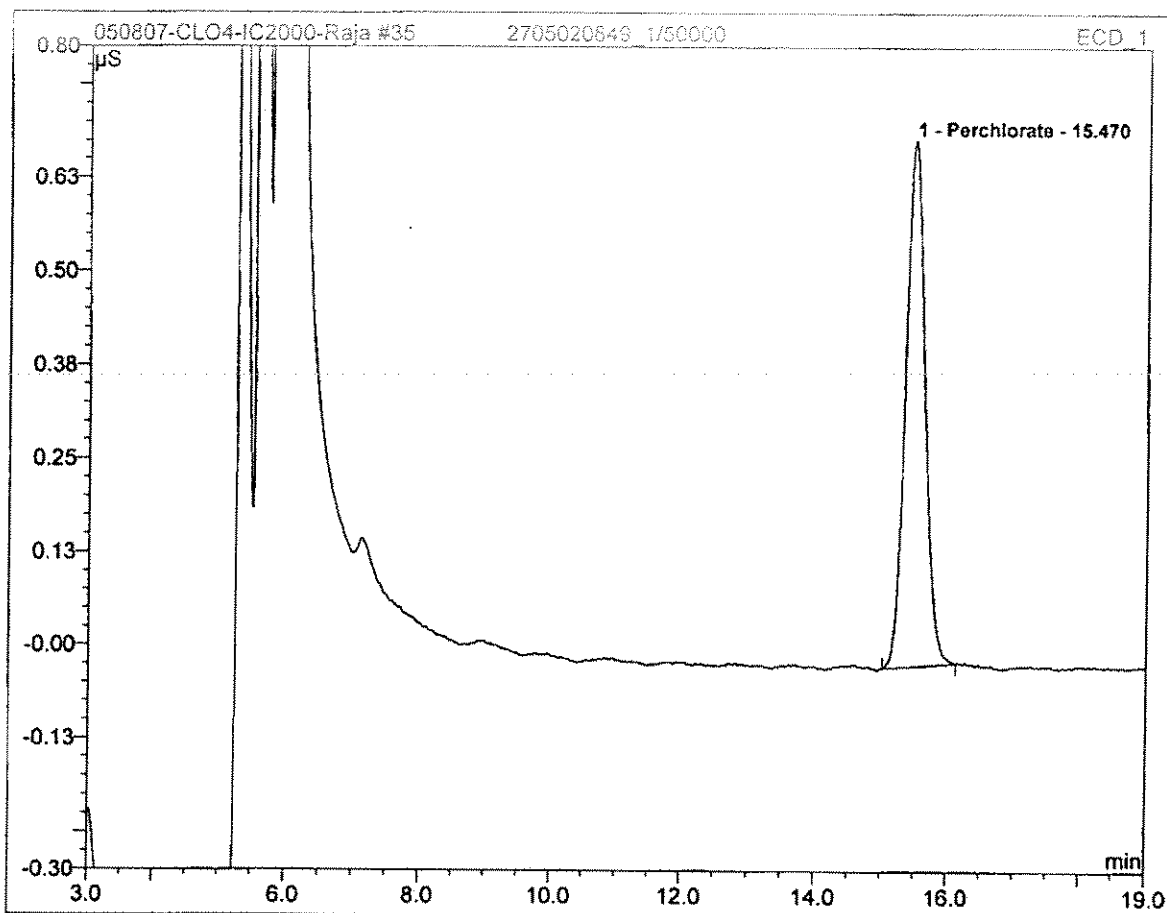


No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount ug/L	Type
1	15.49	Perchlorate	0.365	0.123	100.00	939434.142	BMB
Total:			0.365	0.123	100.00	939434.142	

35 2705020849_1/50000

Sample Name: 2705020849_1/50000
Sample Type: unknown
Recording Time: 05/09/2007 00:03
Analyst: raja

Channel: ECD_1
Control Program: PerchlorateDX2
Quantif. Method: PerchlorateDX2
Dilution Factor: 50000.0000

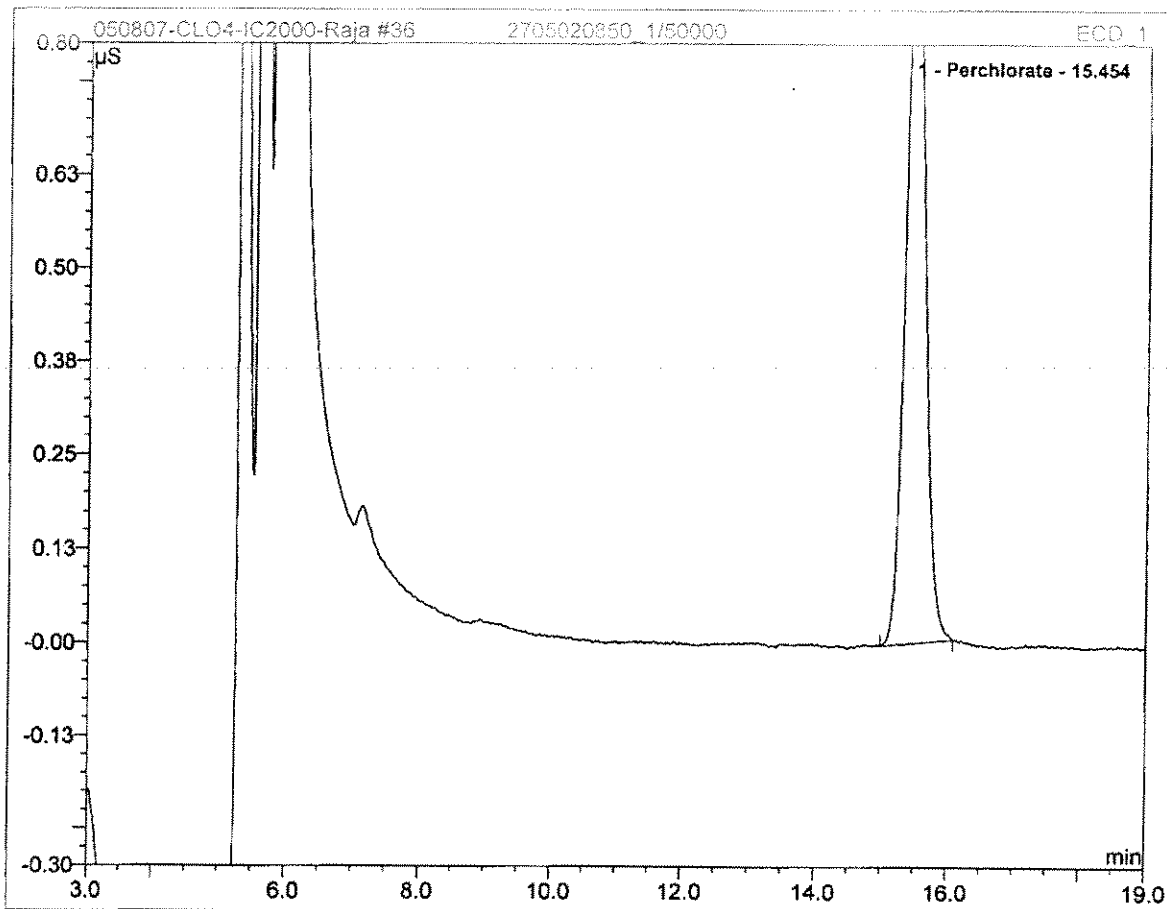


No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount ug/L	Type
1	15.47	Perchlorate	0.704	0.238	100.00	1780138.425	BMB
Total:			0.704	0.238	100.00	1780138.425	

36 2705020850_1/50000

Sample Name: 2705020850_1/50000
Sample Type: unknown
Recording Time: 05/09/2007 00:25
Analyst: raja

Channel: ECD_1
Control Program: PerchlorateDX2
Quantif. Method: PerchlorateDX2
Dilution Factor: 50000.0000

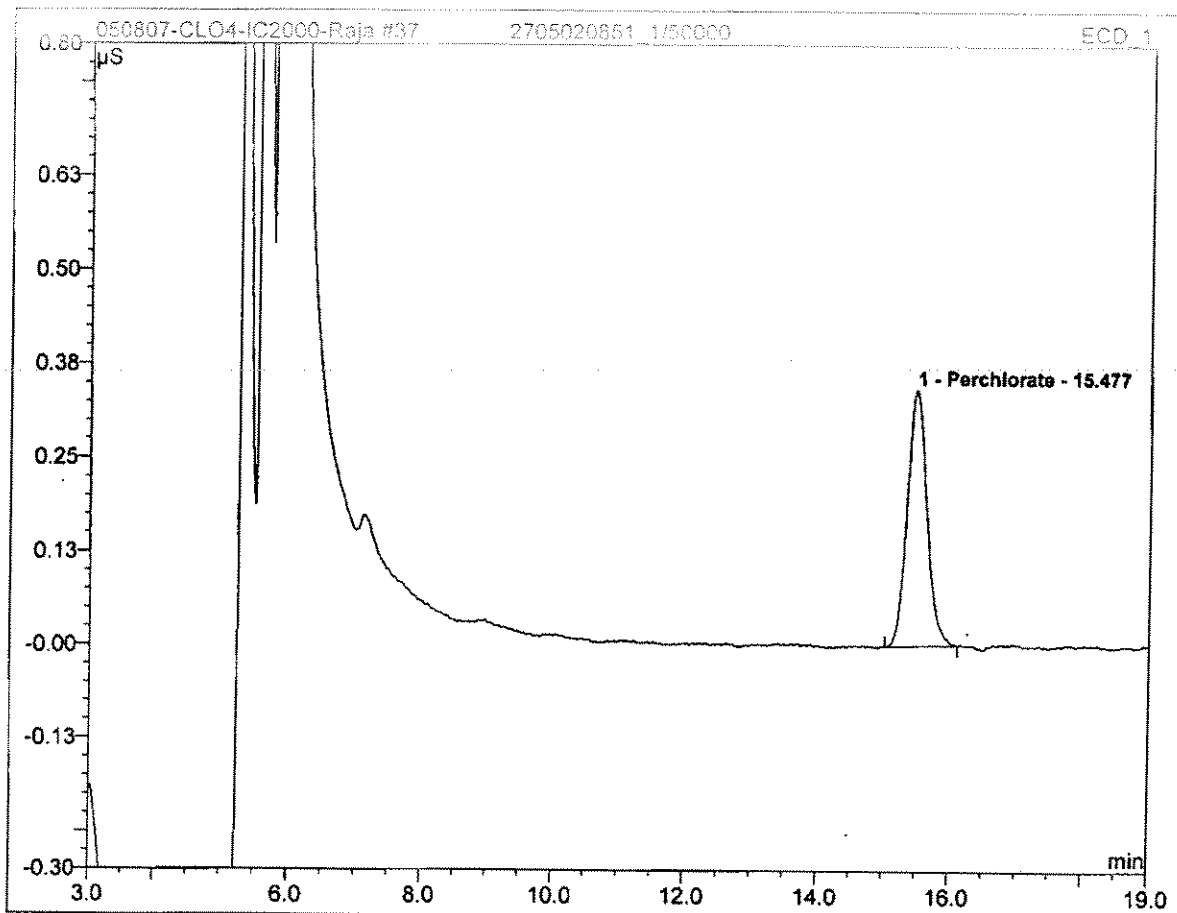


No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount ug/L	Type
1	15.45	Perchlorate	0.997	0.337	100.00	2475055.608	BMB
Total:			0.997	0.337	100.00	2475055.608	

37 2705020851_1/50000

Sample Name: 2705020851_1/50000
Sample Type: unknown
Recording Time: 05/09/2007 00:46
Analyst: raja

Channel: ECD_1
Control Program: PerchlorateDX2
Quantif. Method: PerchlorateDX2
Dilution Factor: 50000.0000

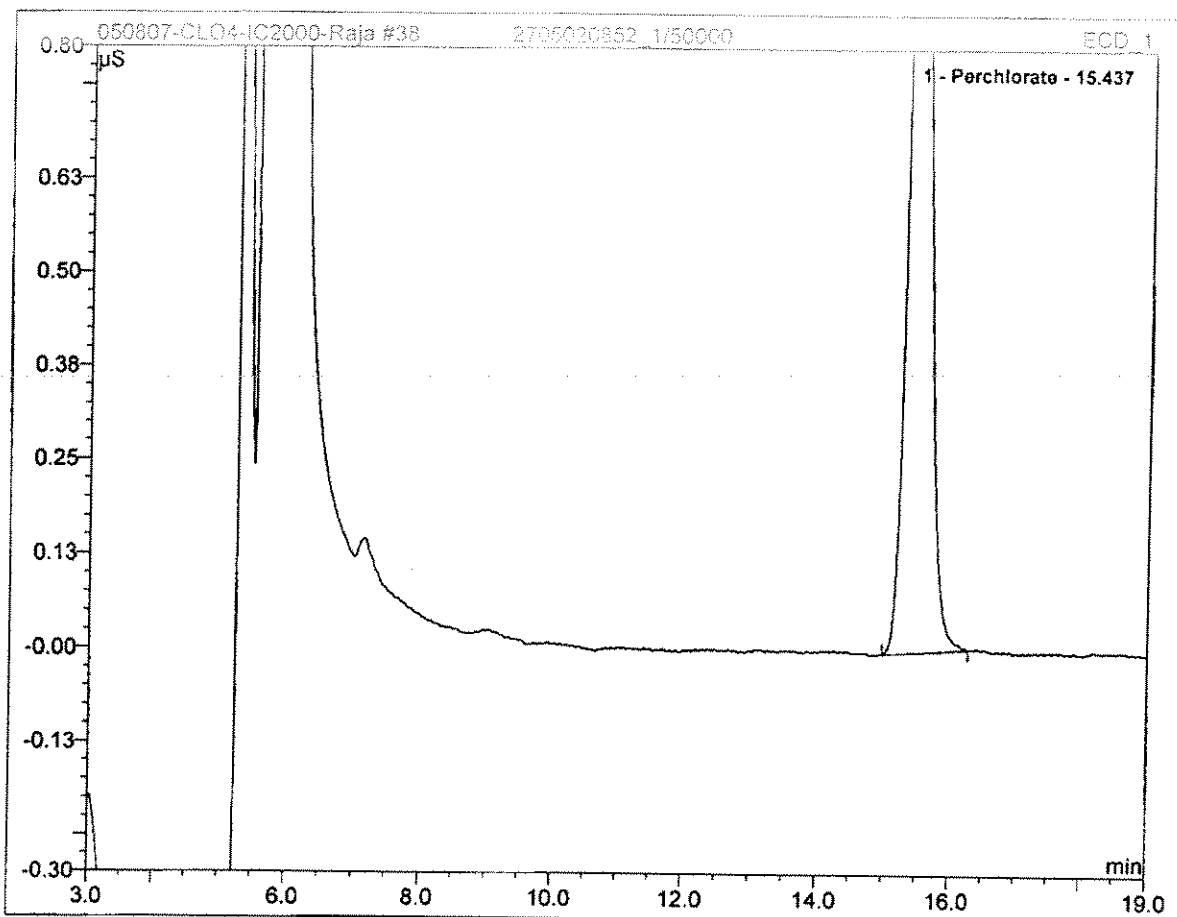


No.	Ret. Time min	Peak Name	Height μS	Area μS*min	Rel. Area %	Amount ug/L	Type
1	15.48	Perchlorate	0.344	0.118	100.00	899554.218	BMB
Total:			0.344	0.118	100.00	899554.218	

38 2705020852_1/50000

Sample Name: 2705020852_1/50000
Sample Type: unknown
Recording Time: 05/09/2007 01:07
Analyst: raja

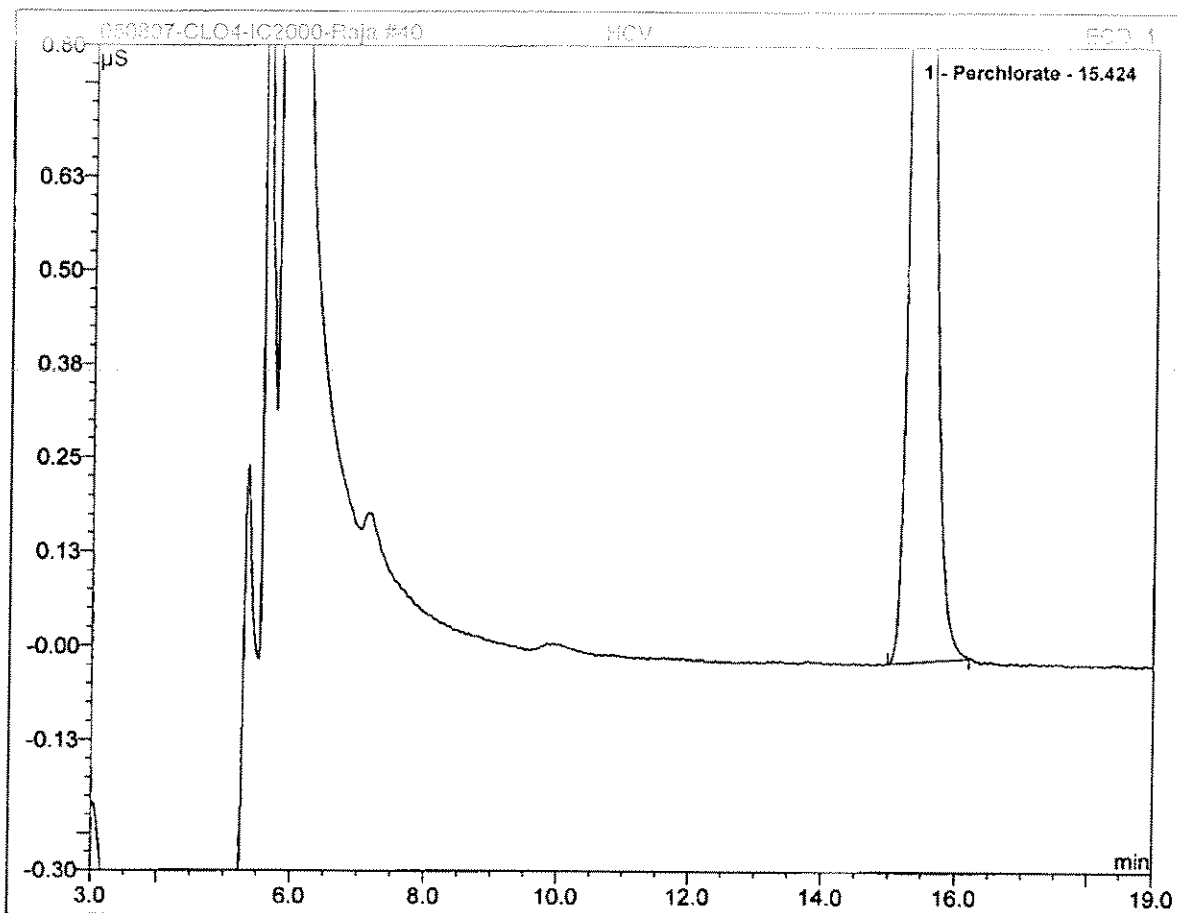
Channel: ECD_1
Control Program: PerchlorateDX2
Quantif. Method: PerchlorateDX2
Dilution Factor: 50000.0000



No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount ug/L	Type
1	15.44	Perchlorate	1.504	0.513	100.00	3672515.096	BMB
Total:			1.504	0.513	100.00	3672515.096	

40 HCV

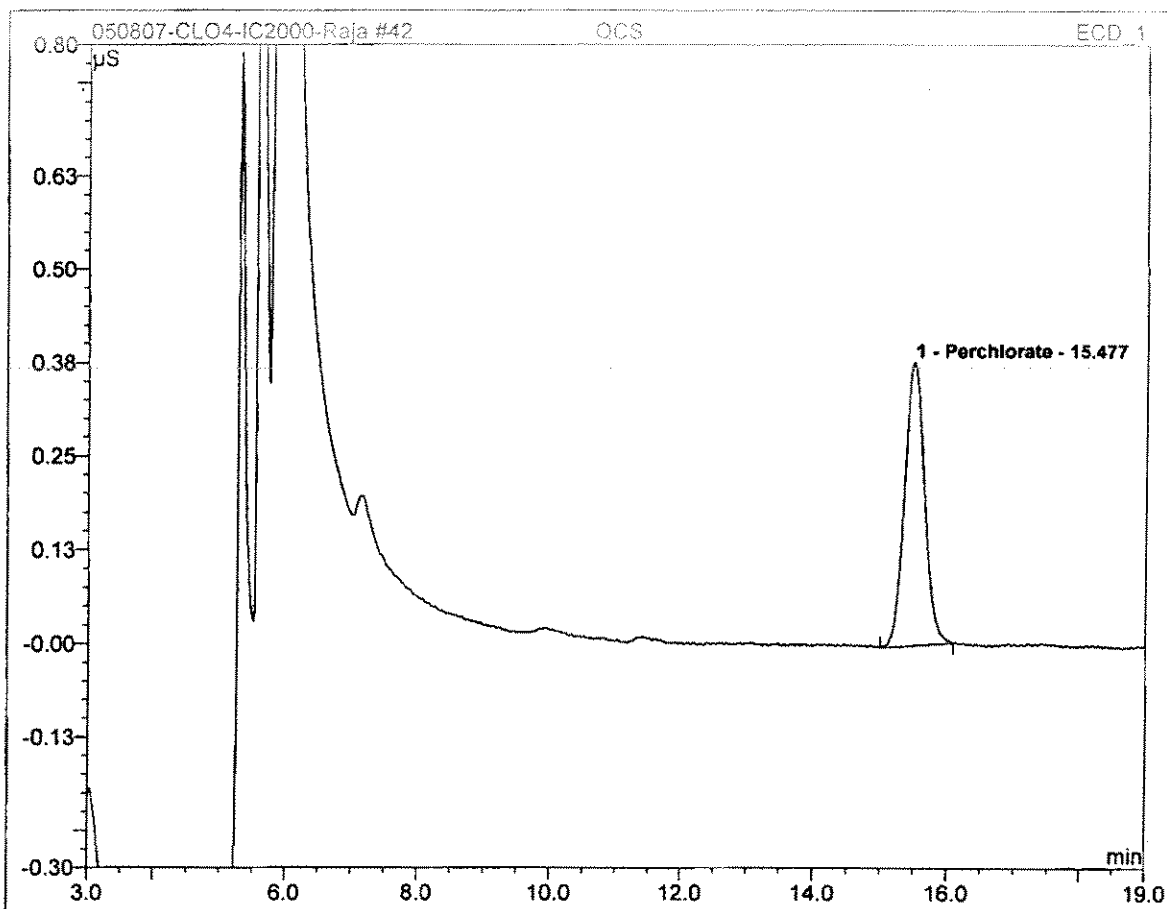
Sample Name:	HCV	Channel:	ECD_1
Sample Type:	unknown	Control Program:	PerchlorateDX2
Recording Time:	05/09/2007 01:50	Quantif. Method:	PerchlorateDX2
Analyst:	raja	Dilution Factor:	1.0000



No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount ug/L	Type
1	15.42	Perchlorate	2.080	0.707	100.00	98.606	BMB
Total:			2.080	0.707	100.00	98.606	

42 QCS

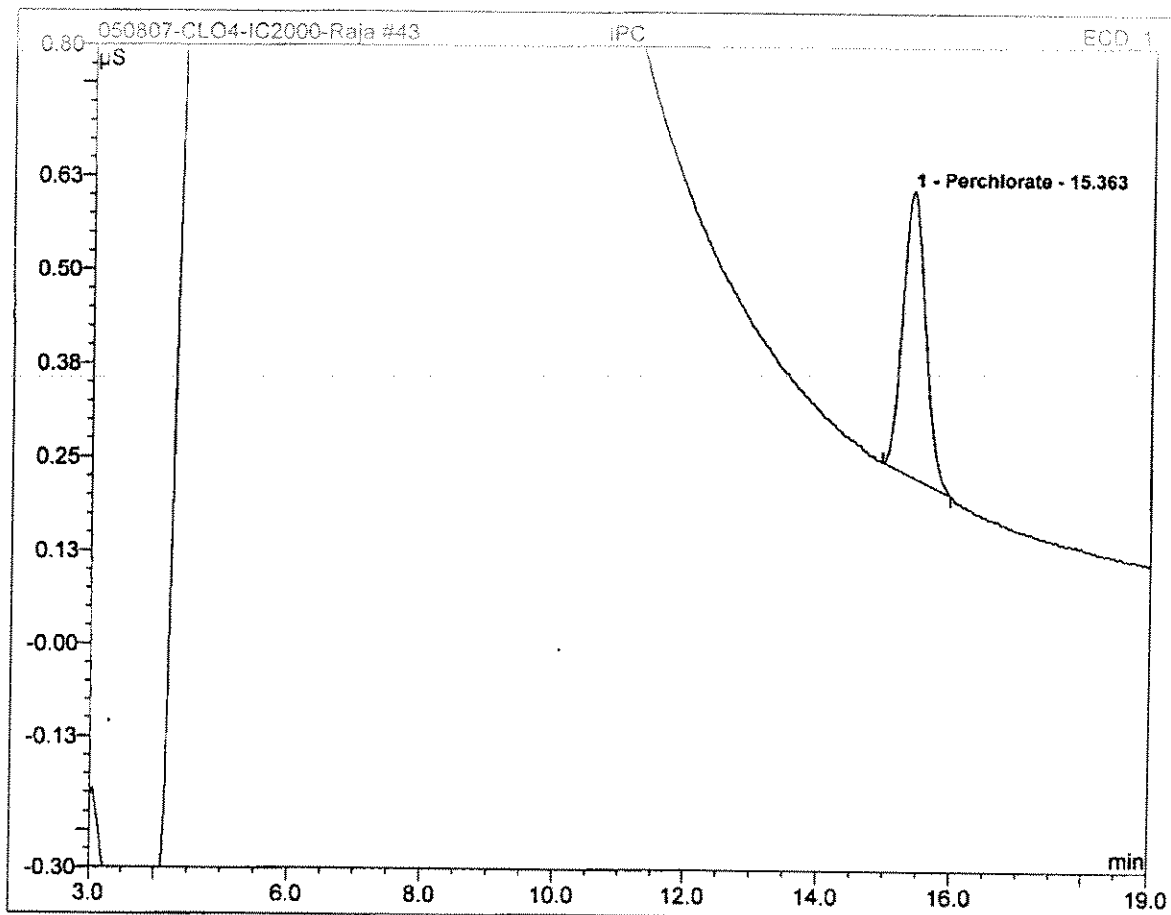
Sample Name:	QCS	Channel:	ECD_1
Sample Type:	unknown	Control Program:	PerchlorateDX2
Recording Time:	05/09/2007 02:33	Quantif. Method:	PerchlorateDX2
Analyst:	raja	Dilution Factor:	1.0000



No.	Ret. Time min	Peak Name	Height μS	Area μS*min	Rel. Area %	Amount ug/L	Type
1	15.48	Perchlorate	0.378	0.130	100.00	19.756	BMB
Total:			0.378	0.130	100.00	19.756	

43 IPC

Sample Name:	IPC	Channel:	ECD_1
Sample Type:	unknown	Control Program:	PerchlorateDX2
Recording Time:	05/09/2007 02:54	Quantif. Method:	PerchlorateDX2
Analyst:	raja	Dilution Factor:	1.0000



No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount ug/L	Type
1	15.36	Perchlorate	0.381	0.151	100.00	22.856	BMB
Total:			0.381	0.151	100.00	22.856	

Perchlorate QC Checklist

rev: 27 Mar 03

Analysis Date: 5-01-02 Analyst: Paja

QC'd by M Date 11. May 02

Instrument: IC 11

Calculated MCT Level: 3155 umhos/cm

Original IPC conductance: 3109 umhos/cm

Daily IPC conductance: 3091 umhos/cm

Batch #2

Calibration including QCS

✓ QCS (20ppb) recovery is within 90% - 110% (18-22ppb) to verify that the calibration curve (minimum 5 points) still holds.

✓ Calibration curve is reanalyzed if QCS fails. Correlation Coefficient is 0.995 or better.

Initial QC Check Samples (MBLANK, MRL, ICCSCV, IPC) to be analyzed with every batch (up to 20 samples) or part thereof

✓ MBLANK is analyzed before samples. Perchlorate, if present, is < or = half of the MRL.

~~N/A~~ L-ClO₄ only: ICCSCV at 2ppb is within 50%-150% (1-3ppb)

✓ ClO₄ only: MRL at 4ppb is within 75%-125% (3-5ppb)

✓ IPC (25ppb) recovery is between 80%-120% (20-30ppb)

✓ IPC retention time is within 5% of the retention time of the standards

✓ IPC Conductance level is within 10% of the original

$$PDA/H = 0.58\% \checkmark$$

LCS/LCSD (25ppb)

✓ Recoveries are between 90%-110% (22.5 - 27.5ppb)

✓ One pair is analyzed per batch (up to 20 samples) or part thereof

MS/MSD (25ppb) NOTE: For UCMR, MS/MSD concentrations alternate between 4ppb and 25ppb

✓ Recoveries are within 80%-120% (20-30ppb) for 25ppb spike ~~N/A~~ (3.2-4.8ppb) for 4ppb spike

✓ One pair is analyzed per batch (up to 20 samples) or part thereof

✓ RPD between MS and MSD is within 15%.

Continuing Calibration Verification (MCV, HCV) NOTE: For UCMR ECV and MCV are required

✓ Verification Checks alternate between mid- and high-level during the analysis (low- and mid-level for UCMR)

✓ MCV (25ppb) recovery is between 85%-115% (21.25 - 28.75ppb)

✓ HCV (100ppb) recovery is between 85%-115% (85-115ppb) ~~N/A~~ ECV (4ppb) recovery is between 75%-125% (3.0-5.0)

Pretreat and include the following QC parameters for any batch or part thereof containing samples requiring pretreatment

~~N/A~~ One Laboratory Reagent Blank (LRB). Perchlorate is < or = half of MRL.

~~N/A~~ One pair of Laboratory Control Samples (LCS/LCSD). Recovery of perchlorate is between 85%-115%.

~~N/A~~ One Pair of Laboratory Fortified Matrices (MS/MSD). Recoveries are between 80%-120%

Samples

✓ All samples are analyzed within 28 days of collection.

✓ All samples are analyzed within MCT Conductance limit.

QIR

~~N/A~~ QIR needed for failed QC

~~N/A~~ QIR needed for samples analyzed outside of hold time

Sample No.	Sample Name	Dil.Fac.	Comment	Time	Amount	CLO4 CD_1
1	autocal1	1.0		05.08.07 09:46	n.a.	
2	autocal2	1.0	RAJA060913-2	05.08.07 10:09	2.1473	
3	autocal3	1.0	RAJA060913-3	05.08.07 10:31	4.1725	
4	autocal4	1.0	RAJA060913-4	05.08.07 10:53	9.6924	
5	autocal5	1.0	RAJA060913-5	05.08.07 11:16	24.5749	
6	autocal6	1.0	RAJA060913-6	05.08.07 11:38	50.3783	
7	autocal7	1.0	RAJA060913-7	05.08.07 12:01	99.9376	
8	WASH	1.0		05.08.07 12:23	n.a.	
9	QCS	1.0		05.08.07 12:45	20.9865	105%
10	IPC	1.0		05.08.07 13:08	24.8483	99.4%
11	MBLK	1.0		05.08.07 13:30	✓ n.a.	
12	MRL-2	1.0		05.08.07 13:53	1.7505	87.5%
13	MRL-4	1.0		05.08.07 14:15	4.3385	108%
14	LCS1	1.0		05.08.07 14:37	✓ 26.3754	106%
15	LCS2	1.0		05.08.07 15:00	✓ 26.3065	105%
16	2705010745_1/500	500.0		05.08.07 15:22	✓ 13888.3879	
17	2705010745MS	1.0		05.08.07 15:45	✓ 51.4624	23.7-94.8%
18	2705010745MSD	1.0		05.08.07 16:07	✓ 50.6618	22.9-91.6%
19	2705010746_1/50	50.0		05.08.07 16:29	✓ 677.2692	
20	2705010747_1/5-DNR	5.0		05.08.07 16:52	12406.1832	
21	2705010748_1/200	200.0		05.08.07 17:14	✓ 4170.9537	
22	2705010749_1/200	200.0		05.08.07 17:36	✓ 10765.8546	
23	2705010750_1/200	200.0		05.08.07 17:59	✓ 13960.7539	
24	2705010751_1/100	100.0		05.08.07 18:21	✓ 1644.3187	
25	2705010752_1/100	100.0		05.08.07 18:44	✓ 1606.2272	
26	2705010753_1/100	100.0		05.08.07 19:06	✓ 7384.7157	
27	2705010754_1/5000	5000.0		05.08.07 19:28	✓ 314716.4451	
28	CCV	1.0		05.08.07 19:51	25.8499	103%
29	2705020799_1/2-DNR	2.0		05.08.07 20:13	4495.6802	
30	2705020800_1/100	100.0		05.08.07 20:36	✓ 3742.8537	
31	2705020801_1/100	100.0		05.08.07 20:58	✓ 3338.6807	
32	2705020802_1/50-DNR	50.0		05.08.07 21:20	n.a.	
33	2705020803_1/100	100.0		05.08.07 21:43	✓ 1737.2040	
34	2705020804_1/500	500.0		05.08.07 22:05	22160.0971	
35	2705020806_1/5-DNR	5.0		05.08.07 22:28	2711.2067	
36	2705020807_1/5-DNR	5.0		05.08.07 22:50	2297.5494	
37	2705020808_1/5-DNR	5.0		05.08.07 23:12	5795.3404	
38	2705020809_1/500	500.0		05.08.07 23:35	✓ 41860.2742	
39	HCV	1.0		05.08.07 23:57	100.6763	101%
40	WASH	1.0		05.09.07 00:20	n.a.	
41	QCS	1.0		05.09.07 00:42	21.5733	108%
42	IPC	1.0		05.09.07 01:04	25.3663	101%
43	MBLK	1.0		05.09.07 01:27	✓ n.a.	
44	MRL-2	1.0		05.09.07 01:49	1.7593	88.0%

45	MRL-4	1.0	05.09.07 02:12	✓ 4.1849	105%
46	LCS1	1.0	05.09.07 02:34	✓ 24.0464	96.2%
47	LCS2	1.0	05.09.07 02:56	✓ 25.5974	102%
48	2705010710_1/2	2.0	05.09.07 03:19	✓ 38.9605	
49	2705010716_1/100	100.0	05.09.07 03:41	✓ 7049.7485	
50	2705010738_1/5000	5000.0	05.09.07 04:03	✓ 81054.6241	
51	2705020813	1.0	05.09.07 04:26	✓ 4.0755	
52	2705020813MS	1.0	05.09.07 04:48	✓ 27.0076	22.9-91.6%
53	2705020813MSD	1.0	05.09.07 05:11	✓ 27.5395	23.4-93.6%
54	2705020854_1/50000 ✓	50000.0	05.09.07 05:33	✓ 931501.7371	
55	2705020855_1/50000-DNR	50000.0	05.09.07 05:55	550646.5505	
56	2705020856_1/500 ✓	500.0	05.09.07 06:18	✓ 14738.7359	
57	2705020857_1/1000 ✓	1000.0	05.09.07 06:41	✓ 17334.1283	
58	2705020858_1/50000 ✓	50000.0	05.09.07 07:03	✓ 756269.7352	
59	2705020859_1/500 ✓	500.0	05.09.07 07:26	✓ 20369.5965	
60	CCV	1.0	05.09.07 07:48	25.5406	102%
61	2705020860_1/10000 ✓	10000.0	05.09.07 08:10	✓ 495388.1720	
62	2705020861	1.0	05.09.07 08:33	✓ 2.4292	
63	2705020862_1/500 ✓	500.0	05.09.07 08:55	✓ 25596.9042	
64	2705020863_1/10000-DNR	10000.0	05.09.07 09:18	24578.4845	
65	2705020864_1/50000 ✓	50000.0	05.09.07 09:40	✓ 3308482.8387	
66	2705040128	1.0	05.09.07 10:03	✓ 3.3432	
67	2705040129	1.0	05.09.07 10:25	✓ n.a.	
68	2705070404	1.0	05.09.07 10:48	✓ n.a.	
69	2705070448	1.0	05.09.07 11:10	✓ n.a.	
70	2705070449	1.0	05.09.07 11:32	✓ n.a.	
71	HCV	1.0	05.09.07 11:55	100.9262	101%

✓ B:NM 5/10/07

Sequence: 050807-CLO4-IC11-II
Operator: raja

Page 1 of 4
Printed: 5/10/2007 12:37:47 PM

Title:
Datasource: IC-SERVER_local
Location: IC11\2007\MAY
Timebase: IC11
#Samples: 71

Created: 5/8/2007 9:31:45 AM by raja
Last Update: 5/9/2007 4:06:39 PM by raja

No.	Name	Dil. Factor	Type	Comment	Status	Program
1	autocal1	1.0000	Standard	/	Finished	Perchlorate-IC11
2	autocal2	1.0000	Standard	RAJA060913-2	Finished	Perchlorate-IC11
3	autocal3	1.0000	Standard	RAJA060913-3	Finished	Perchlorate-IC11
4	autocal4	1.0000	Standard	RAJA060913-4	Finished	Perchlorate-IC11
5	autocal5	1.0000	Standard	RAJA060913-5	Finished	Perchlorate-IC11
6	autocal6	1.0000	Standard	RAJA060913-6	Finished	Perchlorate-IC11
7	autocal7	1.0000	Standard	RAJA060913-7	Finished	Perchlorate-IC11
8	WASH	1.0000	Unknown		Finished	Perchlorate-IC11
9	QCS	1.0000	Unknown		Finished	Perchlorate-IC11
10	IPC	1.0000	Unknown		Finished	Perchlorate-IC11
11	MBLK	1.0000	Unknown		Finished	Perchlorate-IC11
12	MRL-2	1.0000	Unknown		Finished	Perchlorate-IC11
13	MRL-4	1.0000	Unknown		Finished	Perchlorate-IC11
14	LCS1	1.0000	Unknown		Finished	Perchlorate-IC11
15	LCS2	1.0000	Unknown		Finished	Perchlorate-IC11
16	2705010745_1/500	500.0000	Unknown		Finished	Perchlorate-IC11
17	2705010745MS	1.0000	Unknown		Finished	Perchlorate-IC11
18	2705010745MSD	1.0000	Unknown		Finished	Perchlorate-IC11
19	2705010746_1/50	50.0000	Unknown		Finished	Perchlorate-IC11
20	2705010747_1/5-DNR	5.0000	Unknown		Finished	Perchlorate-IC11
21	2705010748_1/200	200.0000	Unknown		Finished	Perchlorate-IC11
22	2705010749_1/200	200.0000	Unknown		Finished	Perchlorate-IC11
23	2705010750_1/200	200.0000	Unknown		Finished	Perchlorate-IC11
24	2705010751_1/100	100.0000	Unknown		Finished	Perchlorate-IC11
25	2705010752_1/100	100.0000	Unknown		Finished	Perchlorate-IC11
26	2705010753_1/100	100.0000	Unknown		Finished	Perchlorate-IC11
27	2705010754_1/5000	5000.0000	Unknown		Finished	Perchlorate-IC11
28	CCV	1.0000	Unknown		Finished	Perchlorate-IC11
29	2705020799_1/2-DNR	2.0000	Unknown		Finished	Perchlorate-IC11
30	2705020800_1/100	100.0000	Unknown		Finished	Perchlorate-IC11
31	2705020801_1/100	100.0000	Unknown		Finished	Perchlorate-IC11
32	2705020802_1/50-DNR	50.0000	Unknown		Finished	Perchlorate-IC11
33	2705020803_1/100	100.0000	Unknown		Finished	Perchlorate-IC11
34	2705020804_1/500	500.0000	Unknown		Finished	Perchlorate-IC11
35	2705020806_1/5-DNR	5.0000	Unknown		Finished	Perchlorate-IC11
36	2705020807_1/5-DNR	5.0000	Unknown		Finished	Perchlorate-IC11
37	2705020808_1/5-DNR	5.0000	Unknown		Finished	Perchlorate-IC11
38	2705020809_1/500	500.0000	Unknown		Finished	Perchlorate-IC11
39	HCV	1.0000	Unknown		Finished	Perchlorate-IC11
40	WASH	1.0000	Unknown		Finished	Perchlorate-IC11
41	QCS	1.0000	Unknown		Finished	Perchlorate-IC11
42	IPC	1.0000	Unknown		Finished	Perchlorate-IC11

Sequence: 050807-CLO4-IC11-II
Operator: raja

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Title:
Datasource: IC-SERVER_local
Location: IC11\2007\MAY
Timebase: IC11
#Samples: 71

Created: 5/8/2007 9:31:45 AM by raja
Last Update: 5/9/2007 4:06:39 PM by raja

No.	Name	Method	Inj. Date/Time	*Analyst
1	autocal1	IC#4-CLO4-LOW	5/8/2007 9:46:41 AM	Raja
2	autocal2	IC#4-CLO4-LOW	5/8/2007 10:09:05 AM	Raja
3	autocal3	IC#4-CLO4-LOW	5/8/2007 10:31:28 AM	Raja
4	autocal4	IC#4-CLO4-LOW	5/8/2007 10:53:52 AM	Raja
5	autocal5	IC#4-CLO4-LOW	5/8/2007 11:16:15 AM	Raja
6	autocal6	IC#4-CLO4-LOW	5/8/2007 11:38:39 AM	Raja
7	autocal7	IC#4-CLO4-LOW	5/8/2007 12:01:03 PM	Raja
8	WASH	IC#4-CLO4-LOW	5/8/2007 12:23:27 PM	Raja
9	QCS	IC#4-CLO4-LOW	5/8/2007 12:45:51 PM	Raja
10	IPC	IC#4-CLO4-LOW	5/8/2007 1:08:14 PM	Raja
11	MBLK	IC#4-CLO4-LOW	5/8/2007 1:30:38 PM	Raja
12	MRL-2	IC#4-CLO4-LOW	5/8/2007 1:53:02 PM	Raja
13	MRL-4	IC#4-CLO4-LOW	5/8/2007 2:15:25 PM	Raja
14	LCS1	IC#4-CLO4-LOW	5/8/2007 2:37:49 PM	Raja
15	LCS2	IC#4-CLO4-LOW	5/8/2007 3:00:13 PM	Raja
16	2705010745_1/500	IC#4-CLO4-LOW	5/8/2007 3:22:37 PM	Raja
17	2705010745MS	IC#4-CLO4-LOW	5/8/2007 3:45:00 PM	Raja
18	2705010745MSD	IC#4-CLO4-LOW	5/8/2007 4:07:24 PM	Raja
19	2705010746_1/50	IC#4-CLO4-LOW	5/8/2007 4:29:48 PM	Raja
20	2705010747_1/5-DNR	IC#4-CLO4-LOW	5/8/2007 4:52:12 PM	Raja
21	2705010748_1/200	IC#4-CLO4-LOW	5/8/2007 5:14:36 PM	Raja
22	2705010749_1/200	IC#4-CLO4-LOW	5/8/2007 5:36:59 PM	Raja
23	2705010750_1/200	IC#4-CLO4-LOW	5/8/2007 5:59:23 PM	Raja
24	2705010751_1/100	IC#4-CLO4-LOW	5/8/2007 6:21:47 PM	Raja
25	2705010752_1/100	IC#4-CLO4-LOW	5/8/2007 6:44:11 PM	Raja
26	2705010753_1/100	IC#4-CLO4-LOW	5/8/2007 7:06:34 PM	Raja
27	2705010754_1/5000	IC#4-CLO4-LOW	5/8/2007 7:28:58 PM	Raja
28	CCV	IC#4-CLO4-LOW	5/8/2007 7:51:22 PM	Raja
29	2705020799_1/2-DNR	IC#4-CLO4-LOW	5/8/2007 8:13:46 PM	Raja
30	2705020800_1/100	IC#4-CLO4-LOW	5/8/2007 8:36:09 PM	Raja
31	2705020801_1/100	IC#4-CLO4-LOW	5/8/2007 8:58:32 PM	Raja
32	2705020802_1/50-DNR	IC#4-CLO4-LOW	5/8/2007 9:20:55 PM	Raja
33	2705020803_1/100	IC#4-CLO4-LOW	5/8/2007 9:43:18 PM	Raja
34	2705020804_1/500	IC#4-CLO4-LOW	5/8/2007 10:05:42 PM	Raja
35	2705020806_1/5-DNR	IC#4-CLO4-LOW	5/8/2007 10:28:05 PM	Raja
36	2705020807_1/5-DNR	IC#4-CLO4-LOW	5/8/2007 10:50:29 PM	Raja
37	2705020808_1/5-DNR	IC#4-CLO4-LOW	5/8/2007 11:12:52 PM	Raja
38	2705020809_1/500	IC#4-CLO4-LOW	5/8/2007 11:35:16 PM	Raja
39	HCV	IC#4-CLO4-LOW	5/8/2007 11:57:39 PM	Raja
40	WASH	IC#4-CLO4-LOW	5/9/2007 12:20:03 AM	Raja
41	QCS	IC#4-CLO4-LOW	5/9/2007 12:42:26 AM	Raja
42	IPC	IC#4-CLO4-LOW	5/9/2007 1:04:50 AM	Raja

Sequence: 050807-CLO4-IC11-II
Operator: raja

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Title:
Datasource: IC-SERVER_local
Location: IC11\2007MAY
Timebase: IC11
#Samples: 71

Created: 5/8/2007 9:31:45 AM by raja
Last Update: 5/9/2007 4:06:39 PM by raja

No.	Name	Dil. Factor	Type	Comment	Status	Program
43	MBLK	1.0000	Unknown		Finished	Perchlorate-IC11
44	MRL-2	1.0000	Unknown		Finished	Perchlorate-IC11
45	MRL-4	1.0000	Unknown		Finished	Perchlorate-IC11
46	LCS1	1.0000	Unknown		Finished	Perchlorate-IC11
47	LCS2	1.0000	Unknown		Finished	Perchlorate-IC11
48	2705010710_1/2	2.0000	Unknown		Finished	Perchlorate-IC11
49	2705010716_1/100	100.0000	Unknown		Finished	Perchlorate-IC11
50	2705010738_1/5000	5000.0000	Unknown		Finished	Perchlorate-IC11
51	2705020813	1.0000	Unknown		Finished	Perchlorate-IC11
52	2705020813MS	1.0000	Unknown		Finished	Perchlorate-IC11
53	2705020813MSD	1.0000	Unknown		Finished	Perchlorate-IC11
54	2705020854_1/50000	50000.0000	Unknown		Finished	Perchlorate-IC11
55	2705020855_1/50000-DNR	50000.0000	Unknown		Finished	Perchlorate-IC11
56	2705020856_1/500	500.0000	Unknown		Finished	Perchlorate-IC11
57	2705020857_1/1000	1000.0000	Unknown		Finished	Perchlorate-IC11
58	2705020858_1/50000	50000.0000	Unknown		Finished	Perchlorate-IC11
59	2705020859_1/500	500.0000	Unknown		Finished	Perchlorate-IC11
60	CCV	1.0000	Unknown		Finished	Perchlorate-IC11
61	2705020860_1/10000	10000.0000	Unknown		Finished	Perchlorate-IC11
62	2705020861	1.0000	Unknown		Finished	Perchlorate-IC11
63	2705020862_1/500	500.0000	Unknown		Finished	Perchlorate-IC11
64	2705020863_1/10000-DNR	10000.0000	Unknown		Finished	Perchlorate-IC11
65	2705020864_1/50000	50000.0000	Unknown		Finished	Perchlorate-IC11
66	2705040128	1.0000	Unknown		Finished	Perchlorate-IC11
67	2705040129	1.0000	Unknown		Finished	Perchlorate-IC11
68	2705070404	1.0000	Unknown		Finished	Perchlorate-IC11
69	2705070448	1.0000	Unknown		Finished	Perchlorate-IC11
70	2705070449	1.0000	Unknown		Finished	Perchlorate-IC11
71	HCV	1.0000	Unknown		Finished	Perchlorate-IC11

Sequence: 050807-CLO4-IC11-II
Operator: raja

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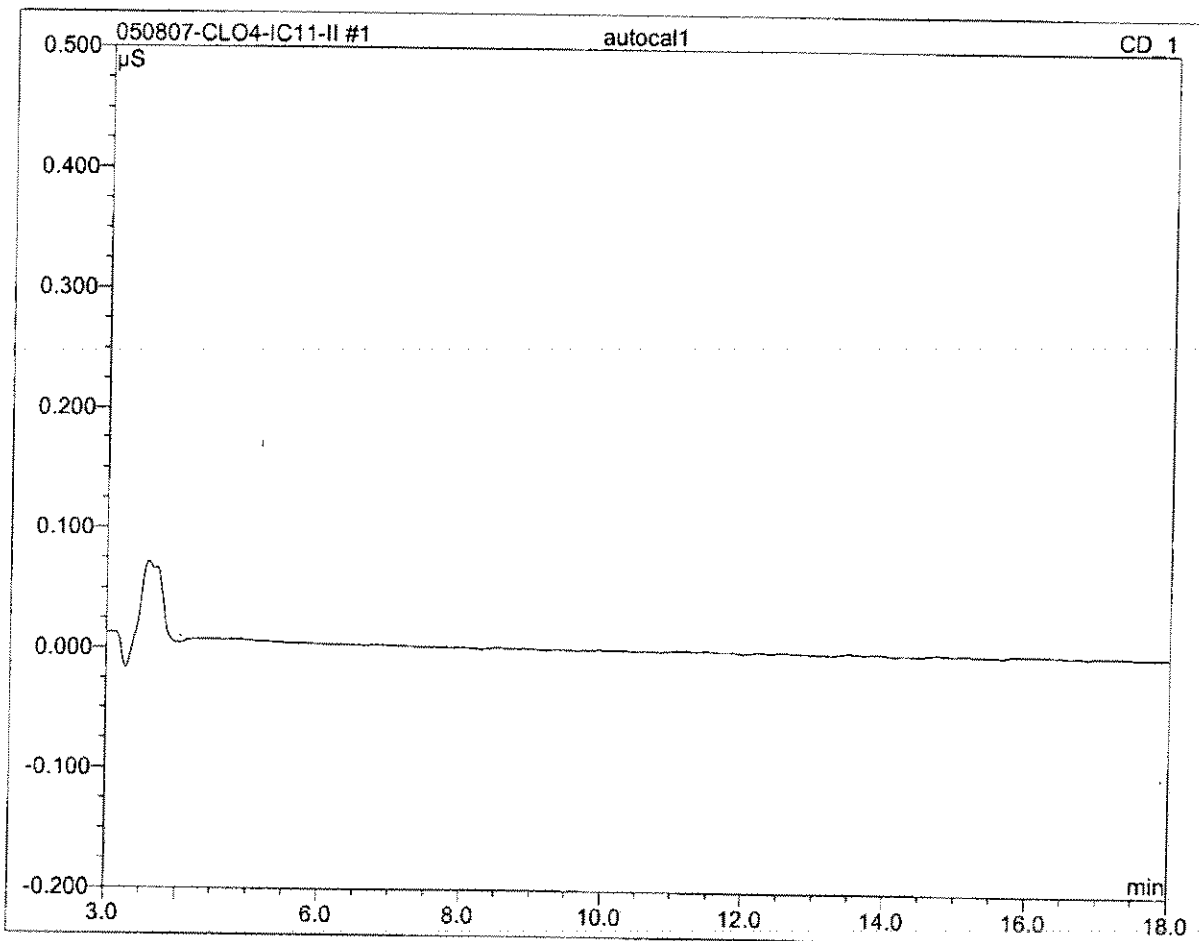
Title:
Datasource: IC-SERVER_local
Location: IC11\2007\MAY
Timebase: IC11
#Samples: 71

Created: 5/8/2007 9:31:45 AM by raja
Last Update: 5/9/2007 4:06:39 PM by raja

No.	Name	Method	Inj. Date/Time	*Analyst
43	MBLK	IC#4-CLO4-LOW	5/9/2007 1:27:13 AM	Raja
44	MRL-2	IC#4-CLO4-LOW	5/9/2007 1:49:37 AM	Raja
45	MRL-4	IC#4-CLO4-LOW	5/9/2007 2:12:01 AM	Raja
46	LCS1	IC#4-CLO4-LOW	5/9/2007 2:34:24 AM	Raja
47	LCS2	IC#4-CLO4-LOW	5/9/2007 2:56:48 AM	Raja
48	2705010710_1/2	IC#4-CLO4-LOW	5/9/2007 3:19:11 AM	Raja
49	2705010716_1/100	IC#4-CLO4-LOW	5/9/2007 3:41:34 AM	Raja
50	2705010738_1/5000	IC#4-CLO4-LOW	5/9/2007 4:03:58 AM	Raja
51	2705020813	IC#4-CLO4-LOW	5/9/2007 4:26:21 AM	Raja
52	2705020813MS	IC#4-CLO4-LOW	5/9/2007 4:48:45 AM	Raja
53	2705020813MSD	IC#4-CLO4-LOW	5/9/2007 5:11:08 AM	Raja
54	2705020854_1/50000	IC#4-CLO4-LOW	5/9/2007 5:33:32 AM	Raja
55	2705020855_1/50000-DNR	IC#4-CLO4-LOW	5/9/2007 5:55:56 AM	Raja
56	2705020856_1/500	IC#4-CLO4-LOW	5/9/2007 6:18:41 AM	Raja
57	2705020857_1/1000	IC#4-CLO4-LOW	5/9/2007 6:41:08 AM	Raja
58	2705020858_1/50000	IC#4-CLO4-LOW	5/9/2007 7:03:35 AM	Raja
59	2705020859_1/500	IC#4-CLO4-LOW	5/9/2007 7:26:02 AM	Raja
60	CCV	IC#4-CLO4-LOW	5/9/2007 7:48:29 AM	Raja
61	2705020860_1/10000	IC#4-CLO4-LOW	5/9/2007 8:10:56 AM	Raja
62	2705020861	IC#4-CLO4-LOW	5/9/2007 8:33:23 AM	Raja
63	2705020862_1/500	IC#4-CLO4-LOW	5/9/2007 8:55:50 AM	Raja
64	2705020863_1/10000-DNR	IC#4-CLO4-LOW	5/9/2007 9:18:17 AM	Raja
65	2705020864_1/50000	IC#4-CLO4-LOW	5/9/2007 9:40:44 AM	Raja
66	2705040128	IC#4-CLO4-LOW	5/9/2007 10:03:11 AM	Raja
67	2705040129	IC#4-CLO4-LOW	5/9/2007 10:25:38 AM	Raja
68	2705070404	IC#4-CLO4-LOW	5/9/2007 10:48:05 AM	Raja
69	2705070448	IC#4-CLO4-LOW	5/9/2007 11:10:32 AM	Raja
70	2705070449	IC#4-CLO4-LOW	5/9/2007 11:32:59 AM	Raja
71	HCV	IC#4-CLO4-LOW	5/9/2007 11:55:26 AM	Raja

1 autocal1

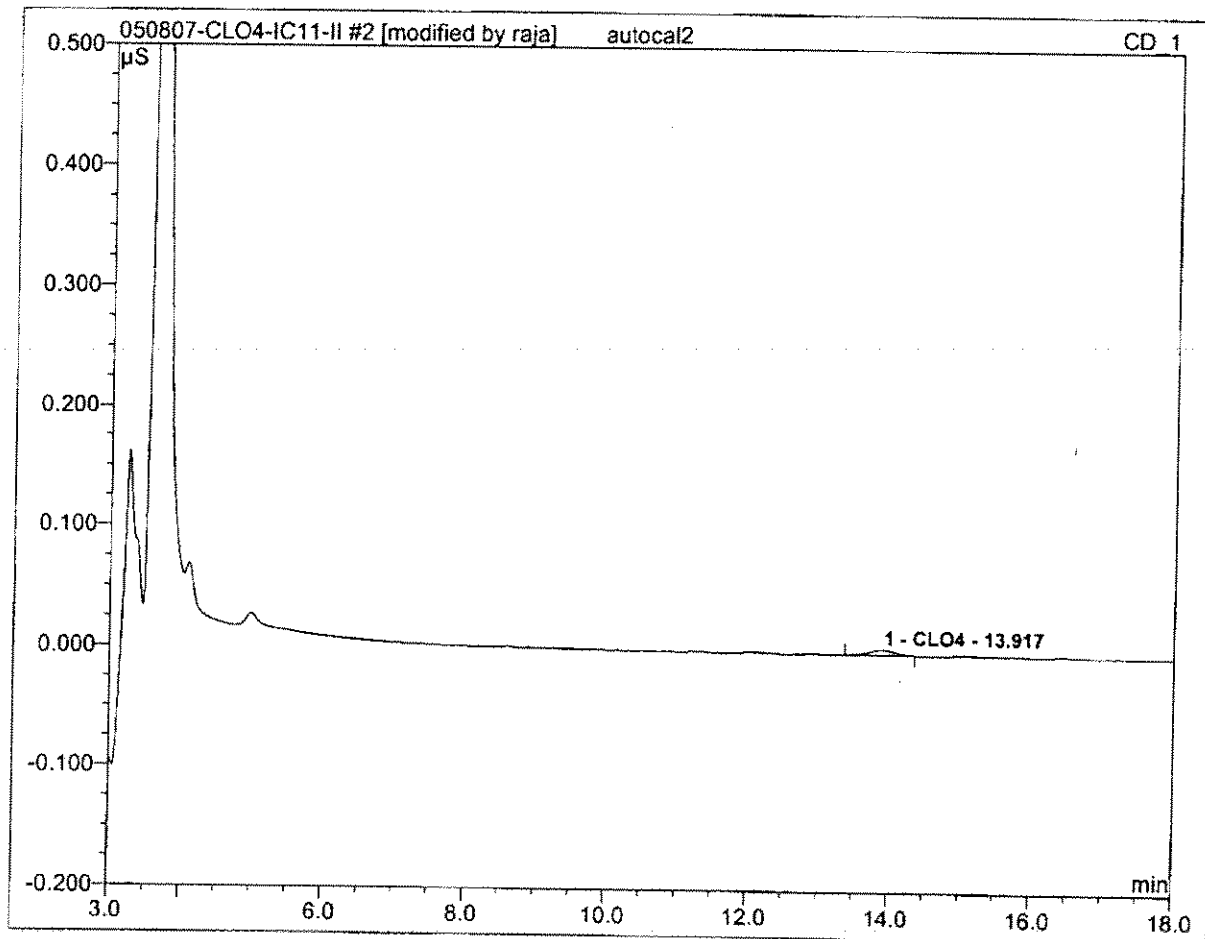
Sample Name:	autocal1	Channel:	CD_1
Sample Type:	standard	Control Program:	Perchlorate-IC11
Recording Time:	05/08/2007 09:46	Quantif. Method:	IC#4-CLO4-LOW
Analyst:	Raja	Dilution Factor:	1.0000



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
Total:			0.000	0.000	0.00	0.000	

2 autocal2**RAJA060913-2**

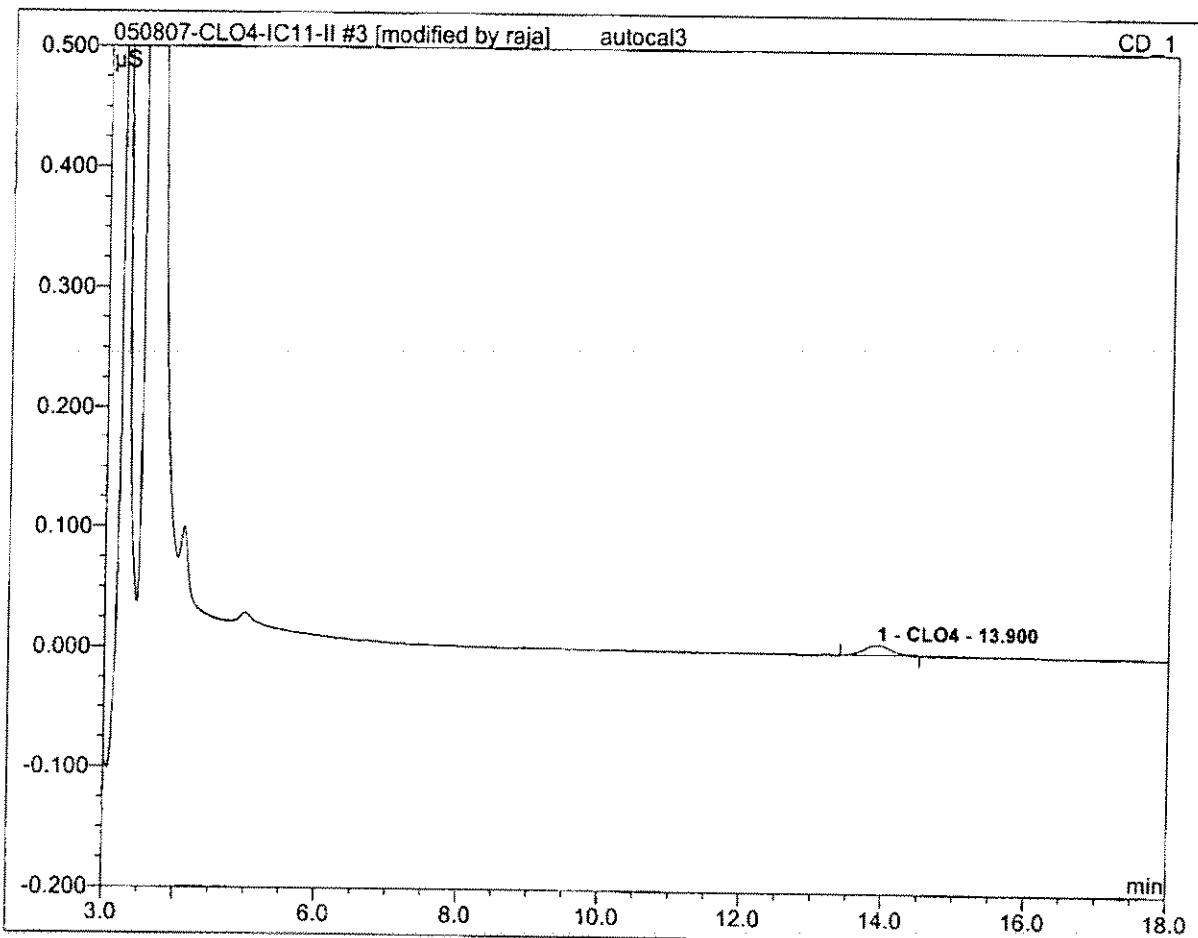
Sample Name:	autocal2	Channel:	CD_1
Sample Type:	standard	Control Program:	Perchlorate-IC11
Recording Time:	05/08/2007 10:09	Quantif. Method:	IC#4-CLO4-LOW
Analyst:	Raja	Dilution Factor:	1.0000



No.	Ret. Time min	Peak Name	Height μS	Area μS*min	Rel. Area %	Amount	Type
1	13.92	CLO4	0.004	0.002	100.00	2.147	BMB*
Total:			0.004	0.002	100.00	2.147	

3 autocal3**RAJA060913-3**

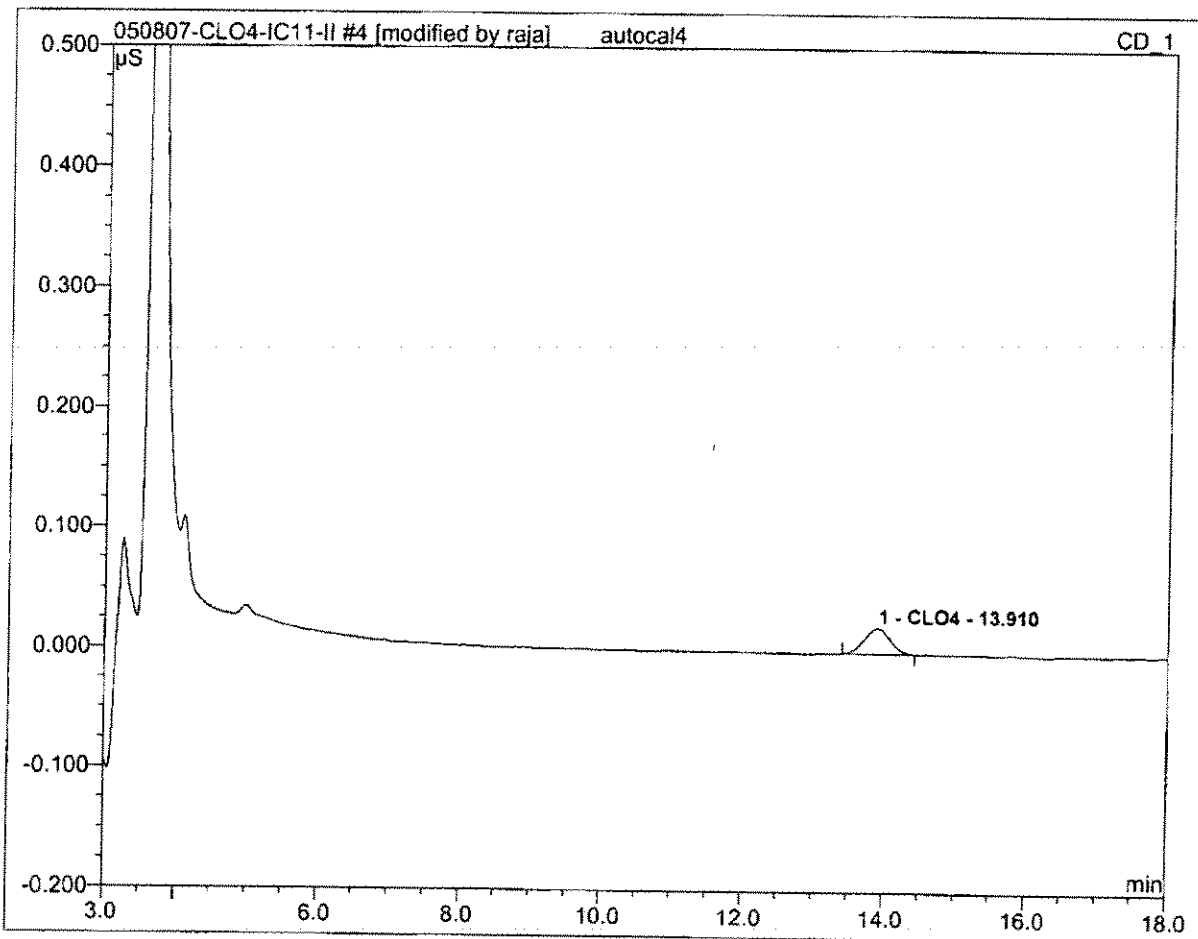
Sample Name:	autocal3	Channel:	CD_1
Sample Type:	standard	Control Program:	Perchlorate-IC11
Recording Time:	05/08/2007 10:31	Quantif. Method:	IC#4-CLO4-LOW
Analyst:	Raja	Dilution Factor:	1.0000



No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	13.90	CLO4	0.009	0.004	100.00	4.173	BMB*
Total:			0.009	0.004	100.00	4.173	

4 autocal4**RAJA060913-4**

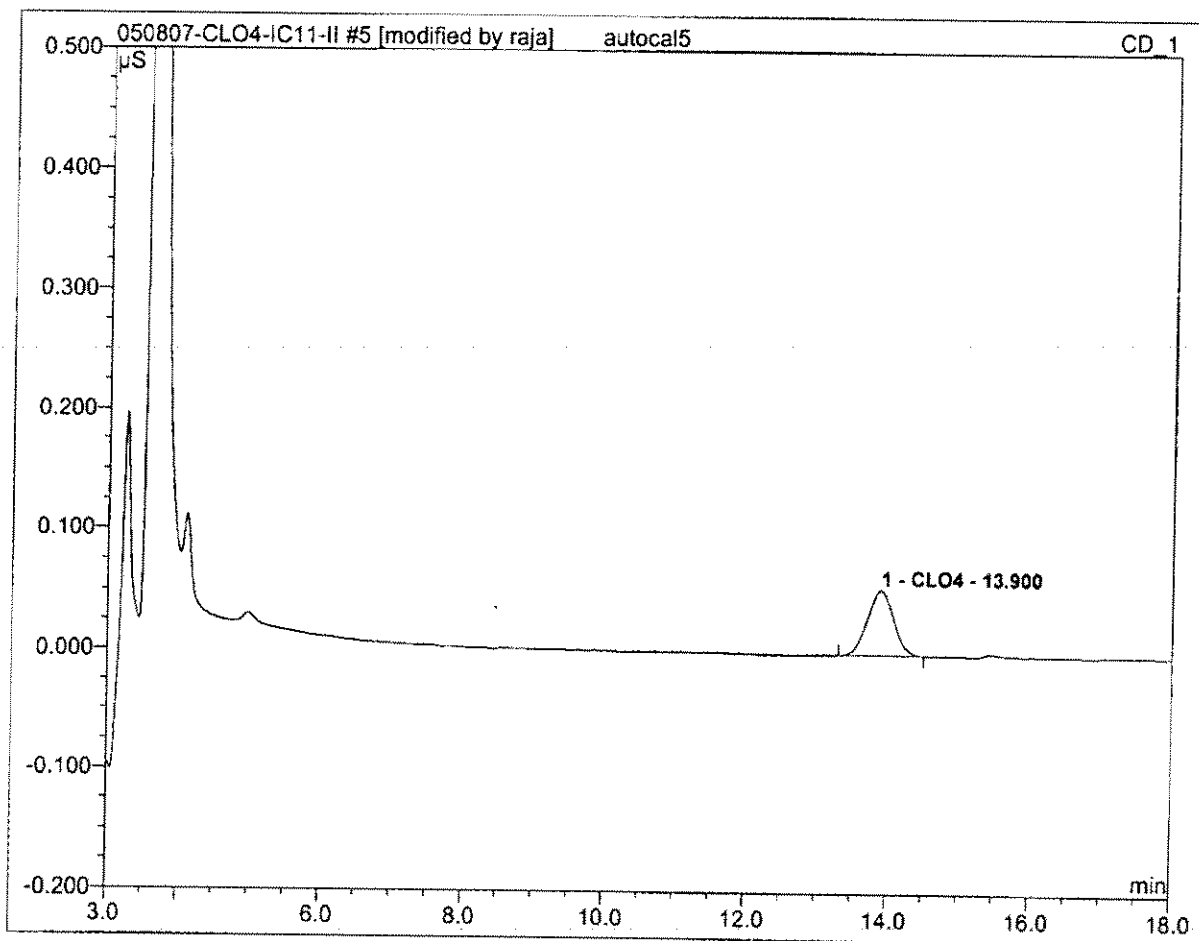
Sample Name:	autocal4	Channel:	CD_1
Sample Type:	standard	Control Program:	Perchlorate-IC11
Recording Time:	05/08/2007 10:53	Quantif. Method:	IC#4-CLO4-LOW
Analyst:	Raja	Dilution Factor:	1.0000



No.	Ret.Time min	Peak Name	Height μS	Area $\mu\text{S} \cdot \text{min}$	Rel.Area %	Amount	Type
1	13.91	CLO4	0.021	0.009	100.00	9.692	BMB*
Total:			0.021	0.009	100.00	9.692	

5 autocal5**RAJA060913-5**

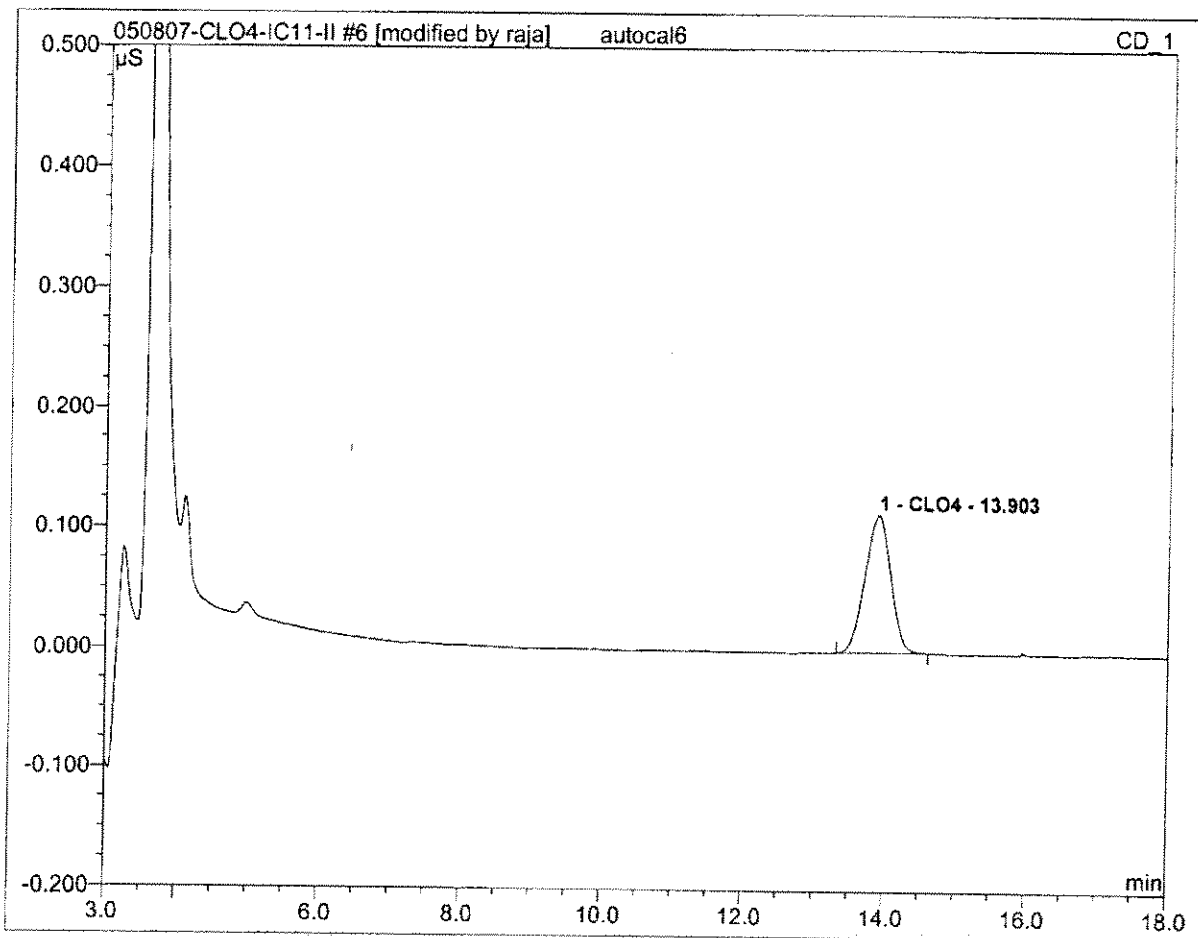
Sample Name:	autocal5	Channel:	CD_1
Sample Type:	standard	Control Program:	Perchlorate-IC11
Recording Time:	05/08/2007 11:16	Quantif. Method:	IC#4-CLO4-LOW
Analyst:	Raja	Dilution Factor:	1.0000



No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	13.90	CLO4	0.054	0.023	100.00	24.575	BMB*
Total:			0.054	0.023	100.00	24.575	

6 autocal6**RAJA060913-6**

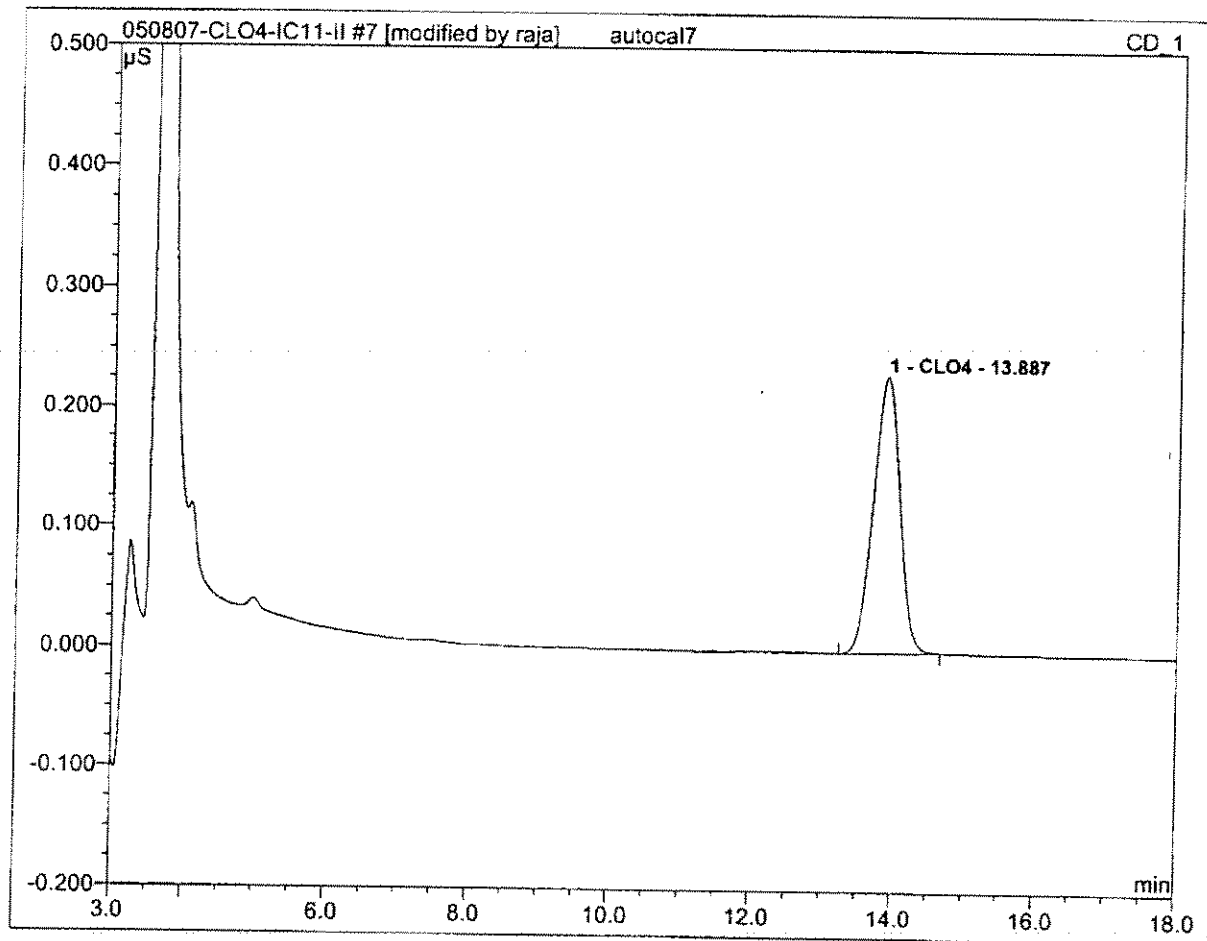
Sample Name:	autocal6	Channel:	CD_1
Sample Type:	standard	Control Program:	Perchlorate-IC11
Recording Time:	05/08/2007 11:38	Quantif. Method:	IC#4-CLO4-LOW
Analyst:	Raja	Dilution Factor:	1.0000



No.	Ret. Time min	Peak Name	Height μS	Area μS*min	Rel. Area %	Amount	Type
1	13.90	CLO4	0.114	0.048	100.00	50.378	BMB*
Total:			0.114	0.048	100.00	50.378	

7 autocal7**RAJA060913-7**

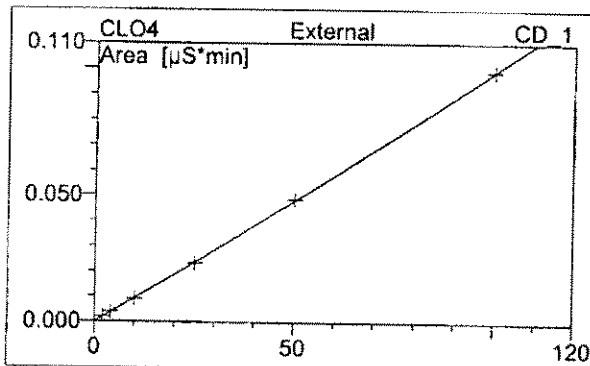
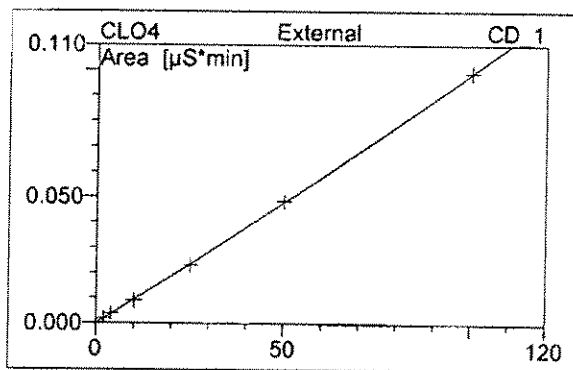
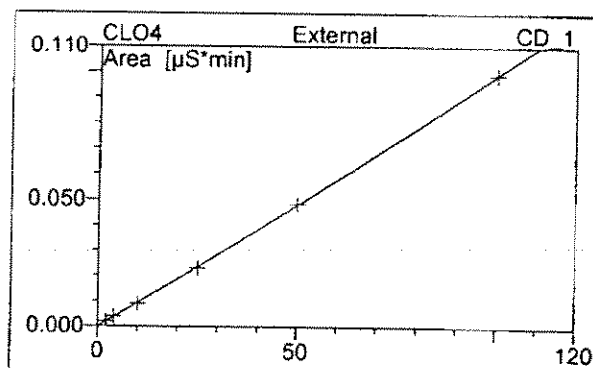
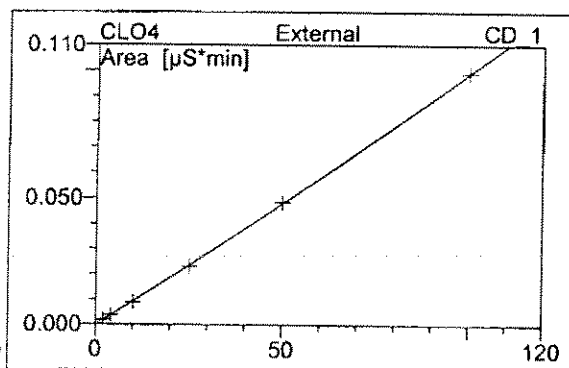
Sample Name:	autocal7	Channel:	CD_1
Sample Type:	standard	Control Program:	Perchlorate-IC11
Recording Time:	05/08/2007 12:01	Quantif. Method:	IC#4-CLO4-LOW
Analyst:	Raja	Dilution Factor:	1.0000



No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	13.89	CLO4	0.231	0.099	100.00	99.938	BMB*
Total:			0.231	0.099	100.00	99.938	

7 autocal7**RAJA060913-7**

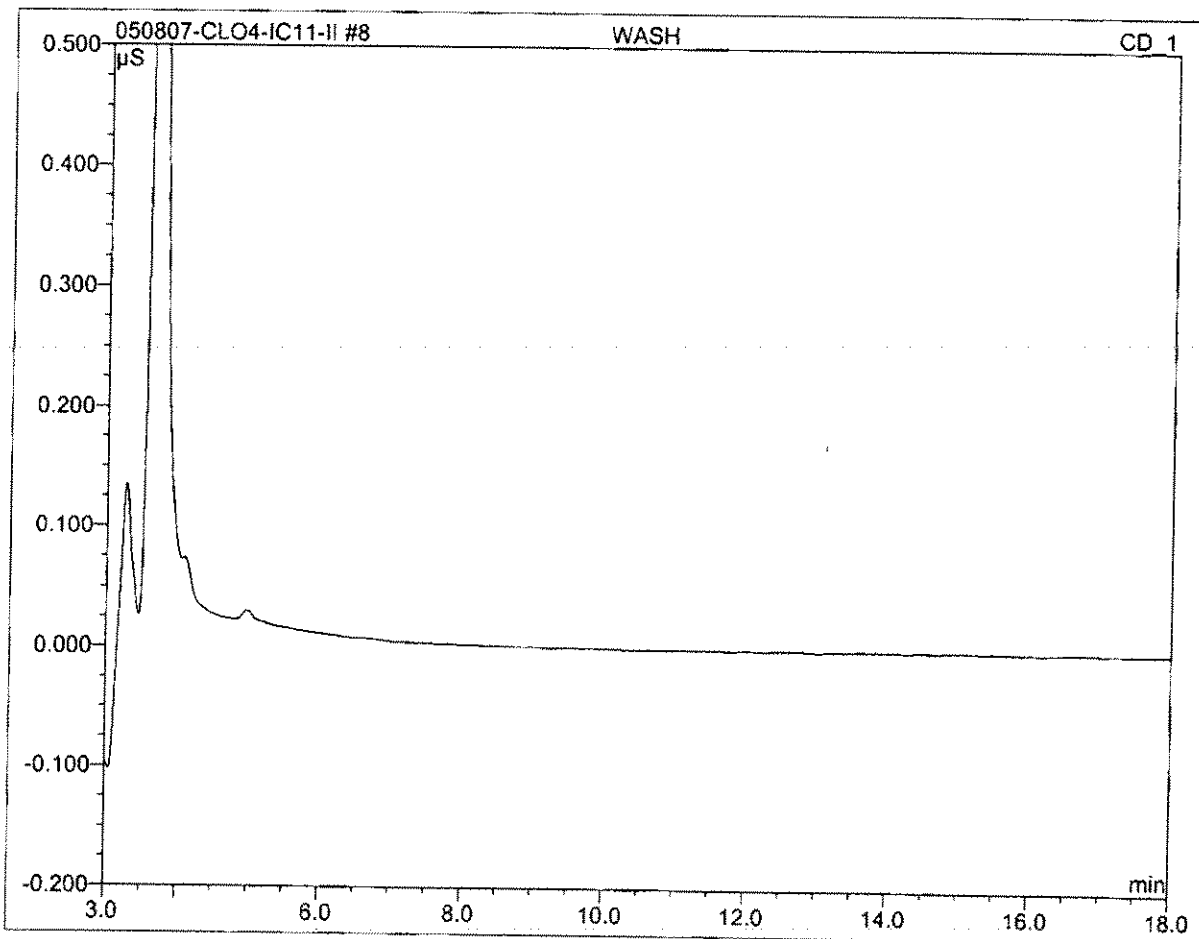
Sample Name:	autocal7	Injection Volume:	20.0
Vial Number:	109	Channel:	CD_1
Sample Type:	standard	Wavelength:	n.a.
Control Program:	Perchlorate-IC11	Bandwidth:	n.a.
Quantif. Method:	IC#4-CLO4-LOW	Dilution Factor:	1.0000
Recording Time:	5/8/2007 12:01	Sample Weight:	1.0000
Run Time (min):	20.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Cal.Type	Points	Corr.Coeff. %	Offset	Slope	Curve
1	13.89	CLO4	0QOff	6	99.9845	-0.0001	0.0009	0.0000
Average:					99.9845	-0.0001	0.0009	0.0000

8 WASH

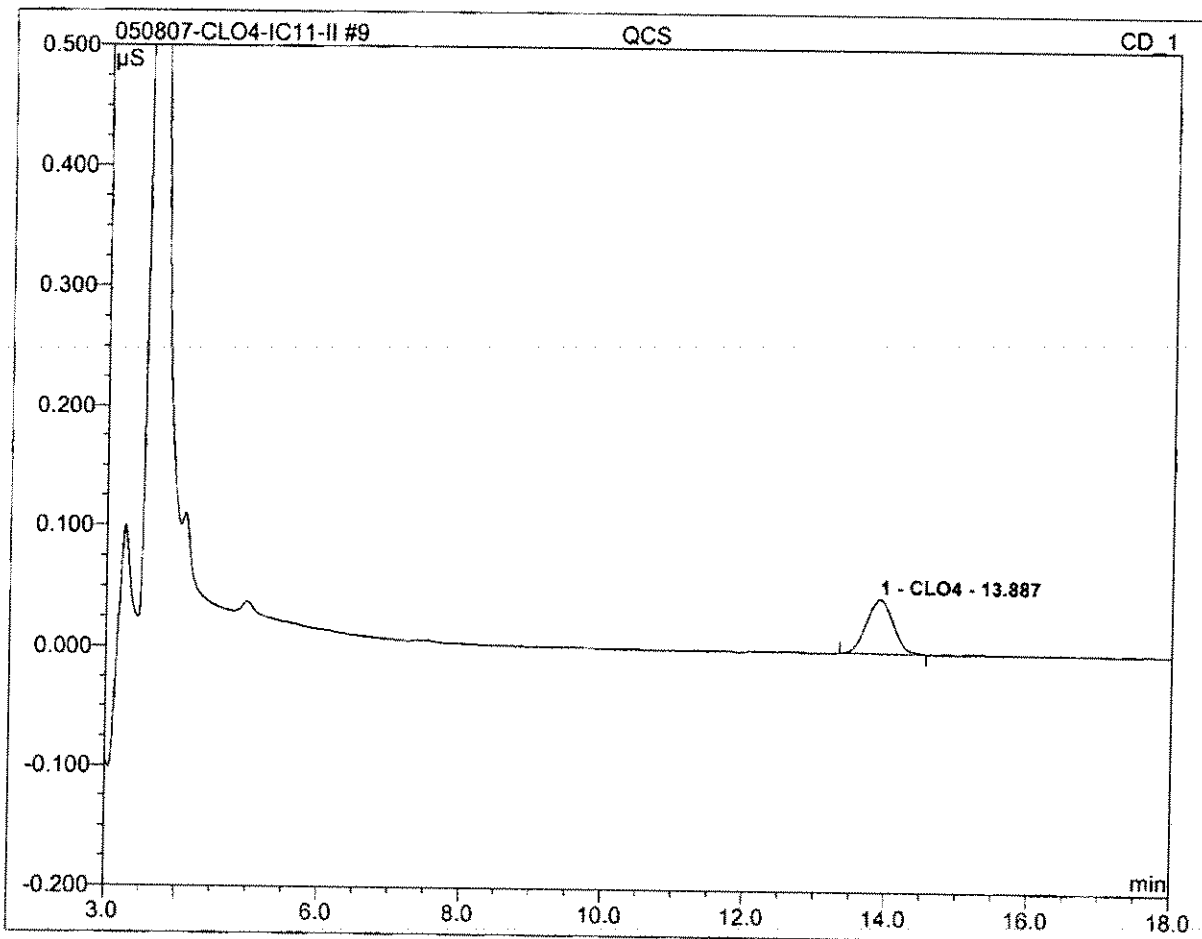
Sample Name:	WASH	Channel:	CD_1
Sample Type:	unknown	Control Program:	Perchlorate-IC11
Recording Time:	05/08/2007 12:23	Quantif. Method:	IC#4-CLO4-LOW
Analyst:	Raja	Dilution Factor:	1.0000



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
Total:			0.000	0.000	0.00	0.000	

9 QCS

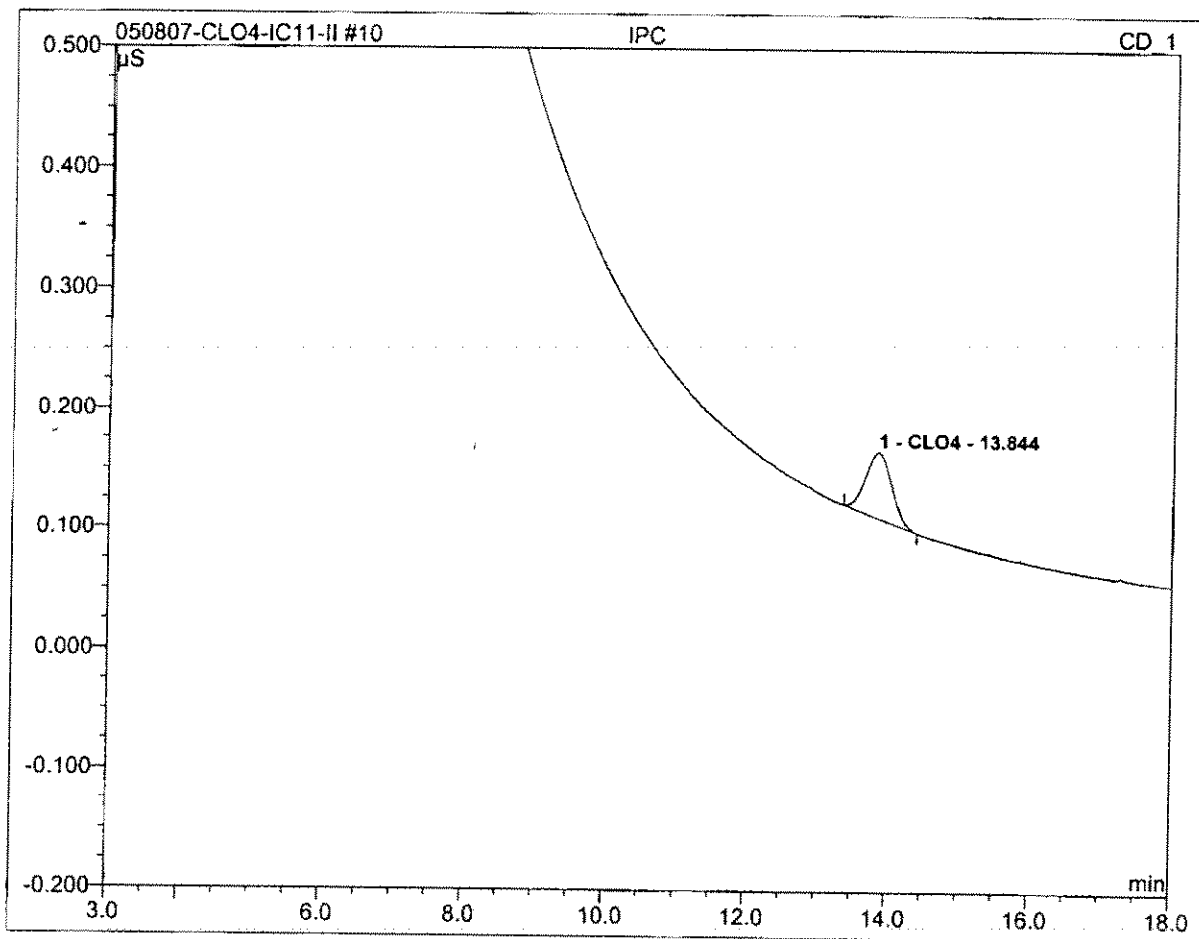
Sample Name:	QCS	Channel:	CD_1
Sample Type:	unknown	Control Program:	Perchlorate-IC11
Recording Time:	05/08/2007 12:45	Quantif. Method:	IC#4-CLO4-LOW
Analyst:	Raja	Dilution Factor:	1.0000



No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	13.89	CLO4	0.045	0.020	100.00	20.986	BMB
Total:			0.045	0.020	100.00	20.986	

10 IPC

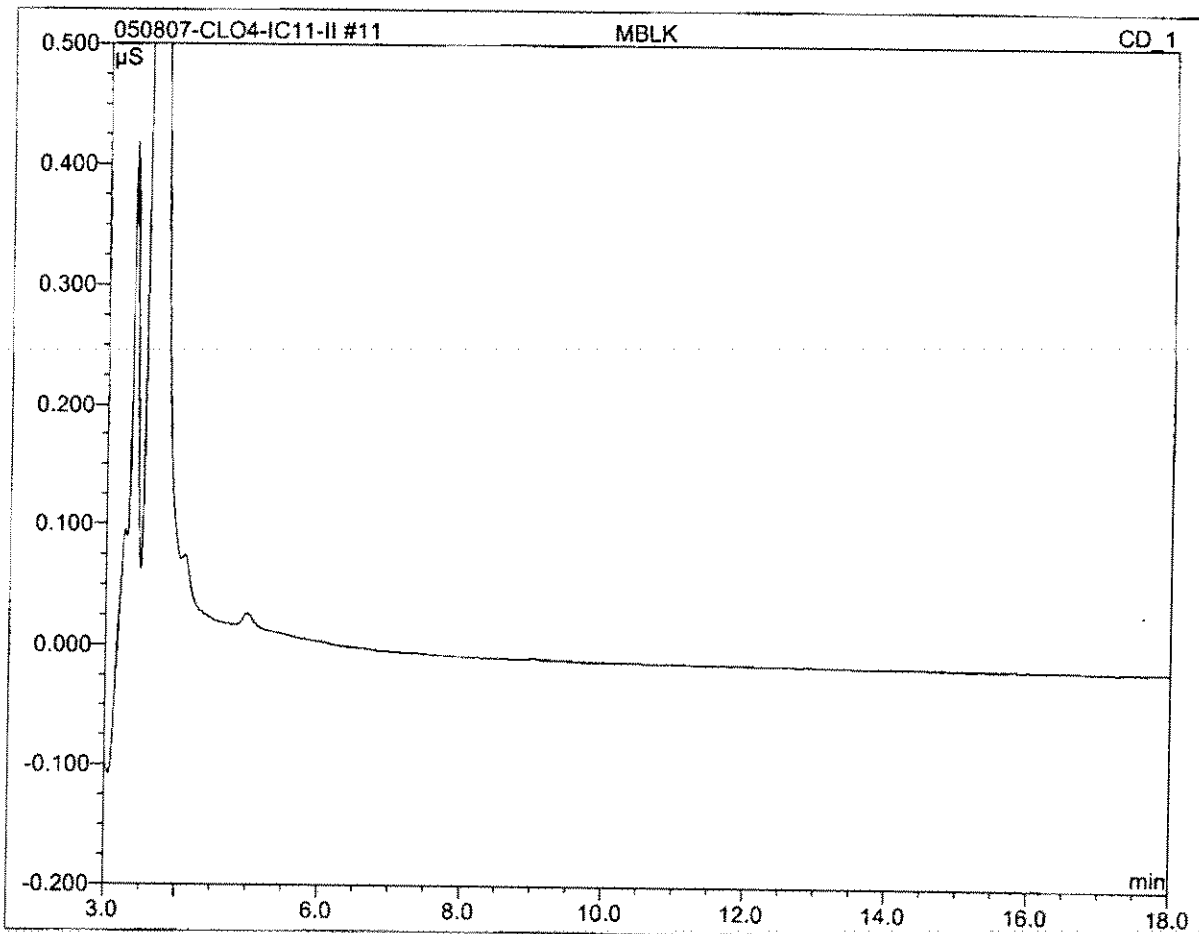
Sample Name:	IPC	Channel:	CD_1
Sample Type:	unknown	Control Program:	Perchlorate-IC11
Recording Time:	05/08/2007 13:08	Quantif. Method:	IC#4-CLO4-LOW
Analyst:	Raja	Dilution Factor:	1.0000



No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	13.84	CLO4	0.054	0.023	100.00	24.848	BMB
Total:			0.054	0.023	100.00	24.848	

11 MBLK

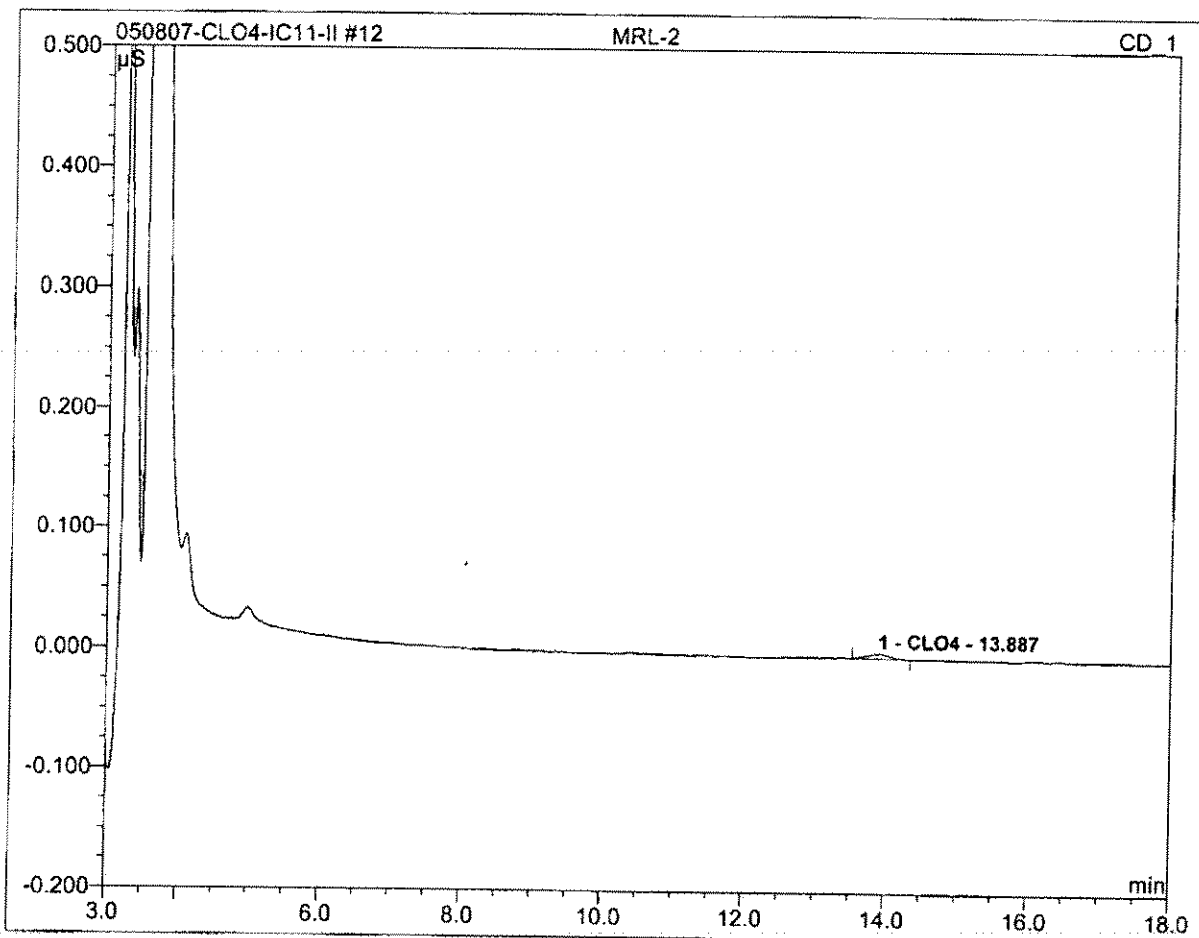
Sample Name:	MBLK	Channel:	CD_1
Sample Type:	unknown	Control Program:	Perchlorate-IC11
Recording Time:	05/08/2007 13:30	Quantif. Method:	IC#4-CLO4-LOW
Analyst:	Raja	Dilution Factor:	1.0000



No.	Ret. Time min	Peak Name	Height µS	Area µS*min	Rel. Area %	Amount	Type
Total:			0.000	0.000	0.00	0.000	

12 MRL-2

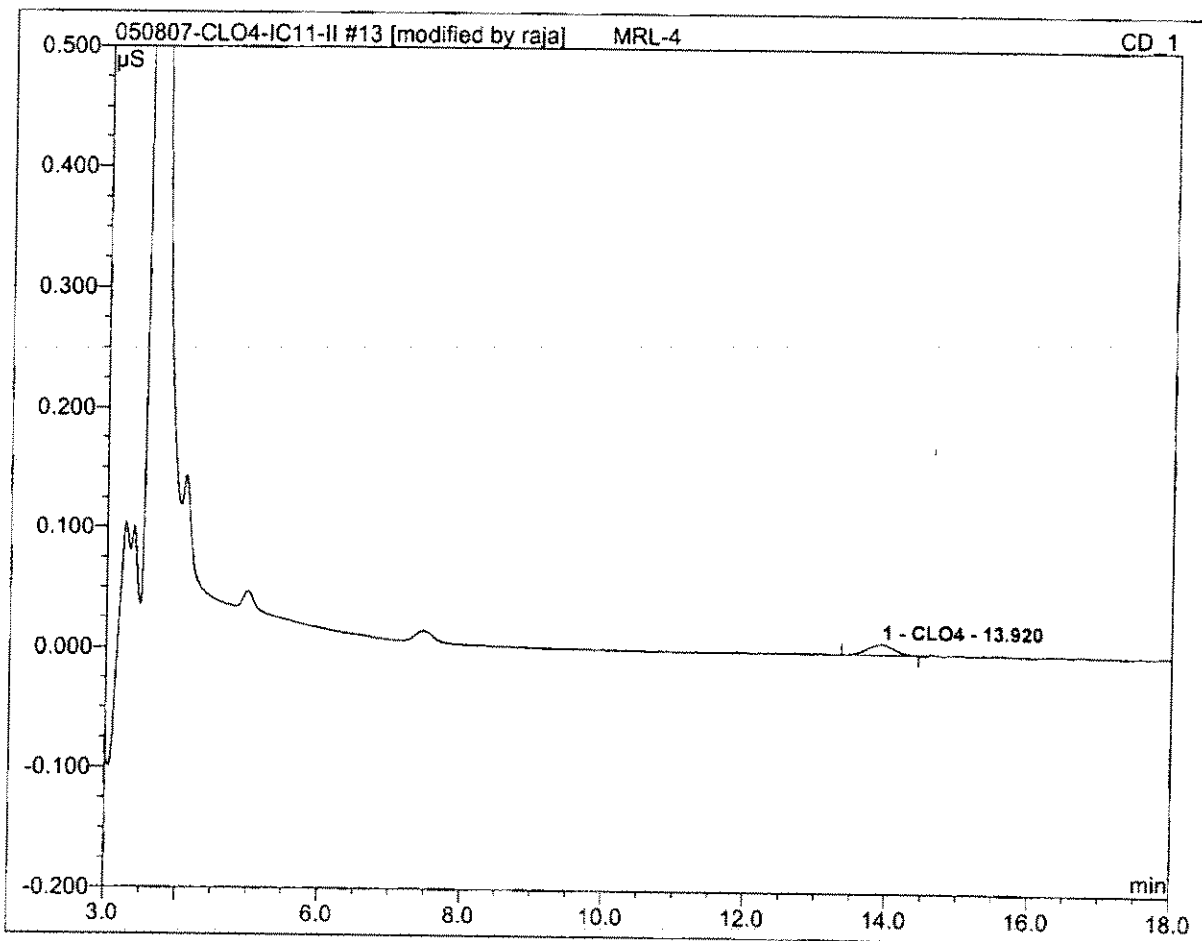
Sample Name:	MRL-2	Channel:	CD_1
Sample Type:	unknown	Control Program:	Perchlorate-IC11
Recording Time:	05/08/2007 13:53	Quantif. Method:	IC#4-CLO4-LOW
Analyst:	Raja	Dilution Factor:	1.0000



No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	13.89	CLO4	0.004	0.002	100.00	1.750	BMB
Total:			0.004	0.002	100.00	1.750	

13 MRL-4

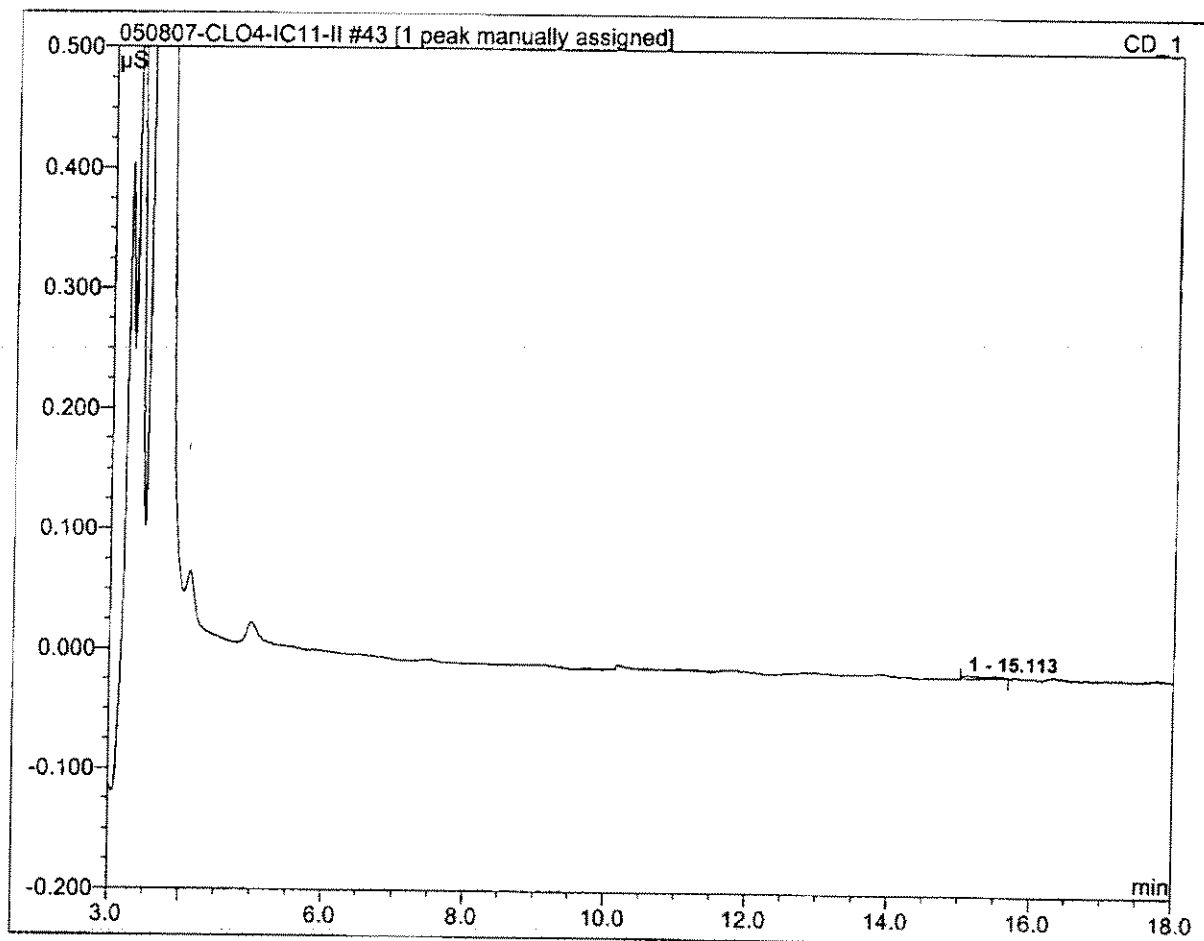
Sample Name:	MRL-4	Channel:	CD_1
Sample Type:	unknown	Control Program:	Perchlorate-IC11
Recording Time:	05/08/2007 14:15	Quantif. Method:	IC#4-CLO4-LOW
Analyst:	Raja	Dilution Factor:	1.0000



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	13.92	CLO4	0.009	0.004	100.00	4.338	BMB*
Total:			0.009	0.004	100.00	4.338	

43 MBLK

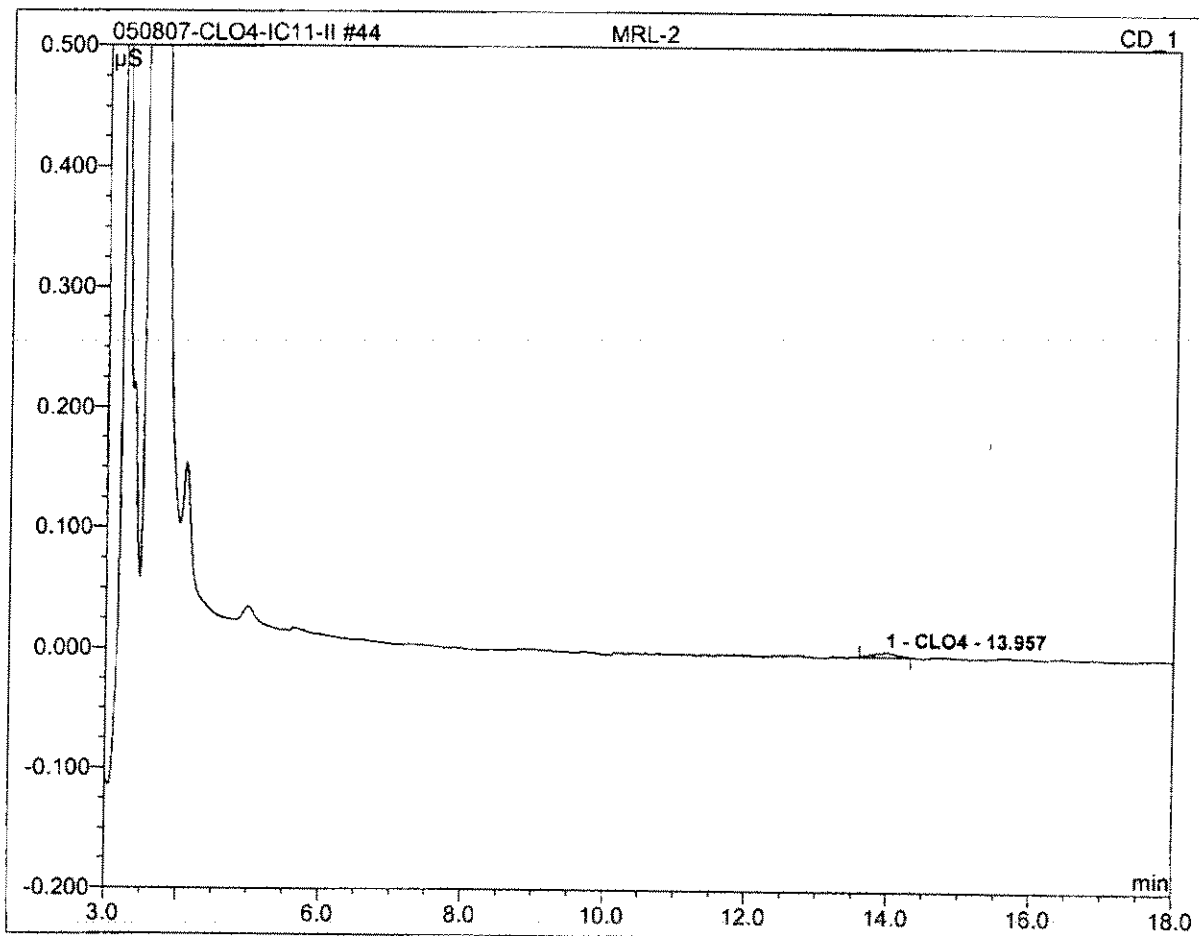
Sample Name:	MBLK	Channel:	CD_1
Sample Type:	unknown	Control Program:	Perchlorate-IC11
Recording Time:	05/09/2007 01:27	Quantif. Method:	IC#4-CLO4-LOW
Analyst:	Raja	Dilution Factor:	1.0000



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
Total:			0.000	0.000	0.00	0.000	

44 MRL-2

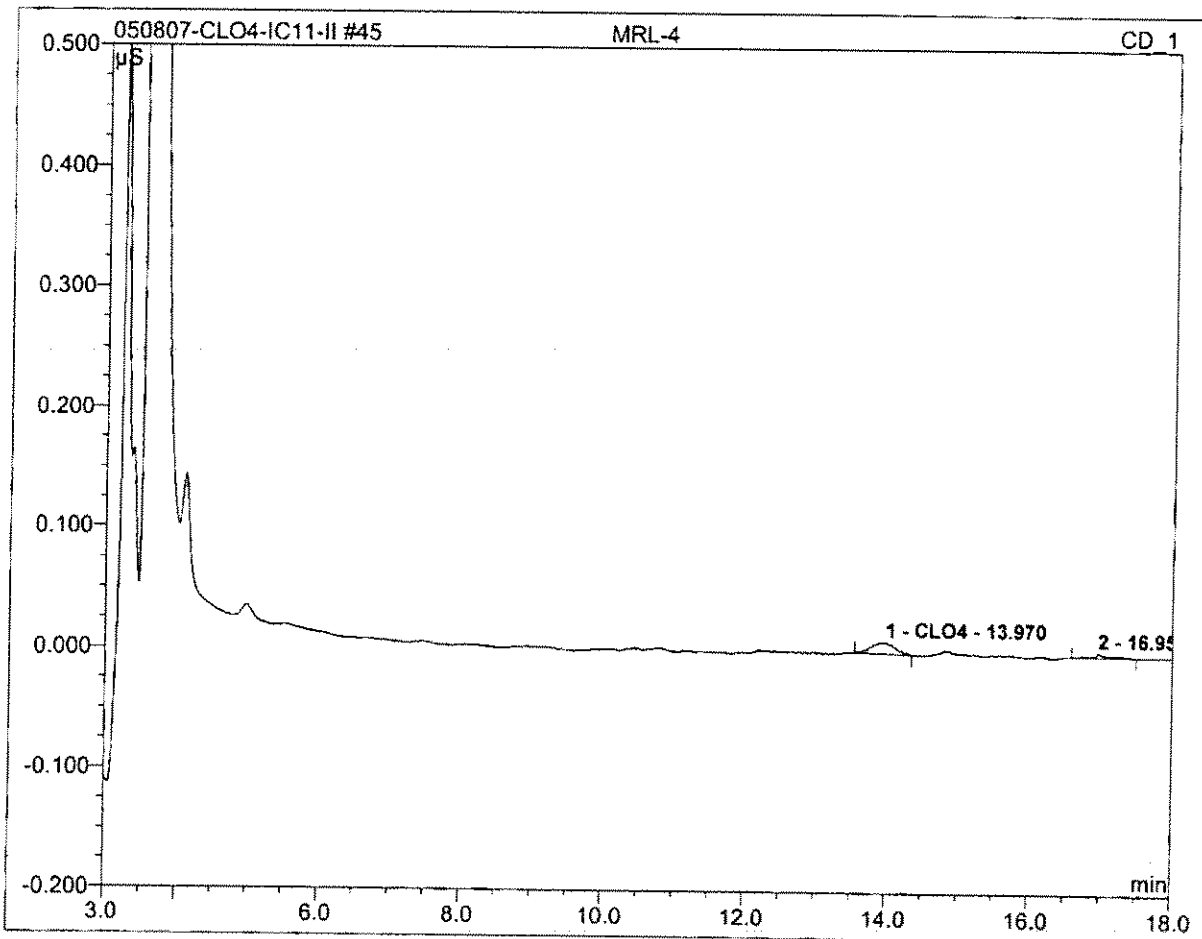
Sample Name:	MRL-2	Channel:	CD_1
Sample Type:	unknown	Control Program:	Perchlorate-IC11
Recording Time:	05/09/2007 01:49	Quantif. Method:	IC#4-CLO4-LOW
Analyst:	Raja	Dilution Factor:	1.0000



No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	13.96	CLO4	0.004	0.002	100.00	1.759	BMB
Total:			0.004	0.002	100.00	1.759	

45 MRL-4

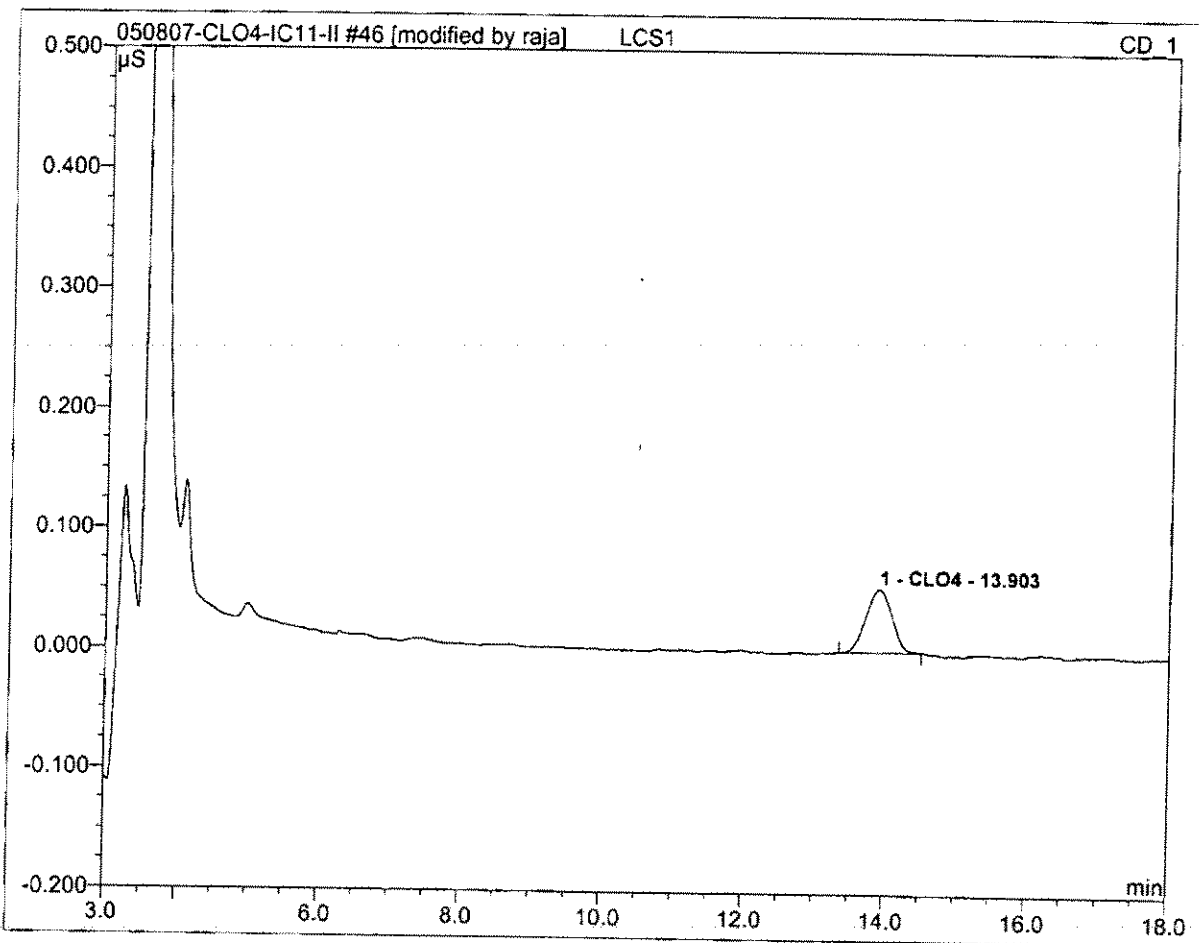
Sample Name:	MRL-4	Channel:	CD_1
Sample Type:	unknown	Control Program:	Perchlorate-IC11
Recording Time:	05/09/2007 02:12	Quantif. Method:	IC#4-CLO4-LOW
Analyst:	Raja	Dilution Factor:	1.0000



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	13.97	CLO4	0.010	0.004	77.44	4.185	BMB
Total:			0.010	0.004	77.44	4.185	

46 LCS1

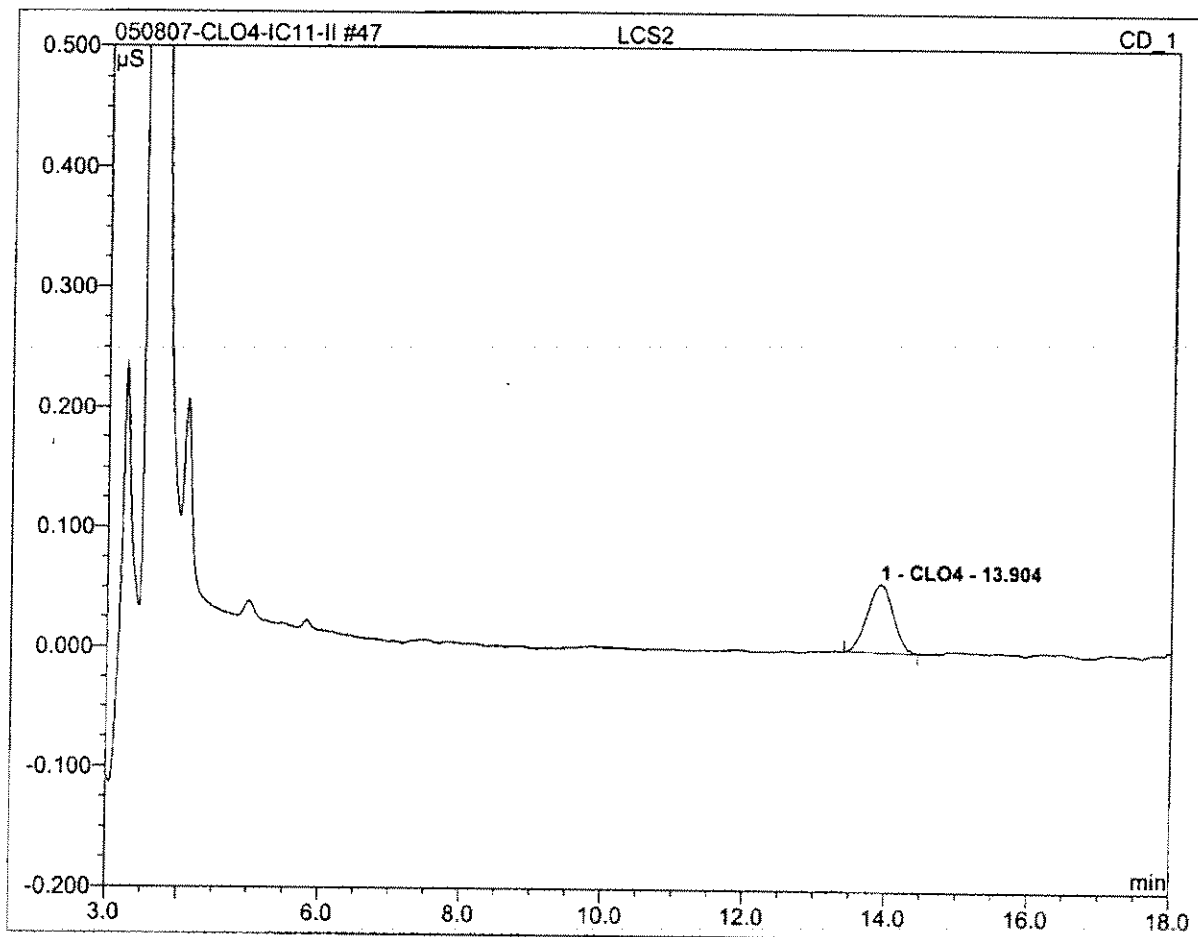
Sample Name:	LCS1	Channel:	CD_1
Sample Type:	unknown	Control Program:	Perchlorate-IC11
Recording Time:	05/09/2007 02:34	Quantif. Method:	IC#4-CLO4-LOW
Analyst:	Raja	Dilution Factor:	1.0000



No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	13.90	CLO4	0.053	0.023	100.00	24.046	BMB*
Total:			0.053	0.023	100.00	24.046	

47 LCS2

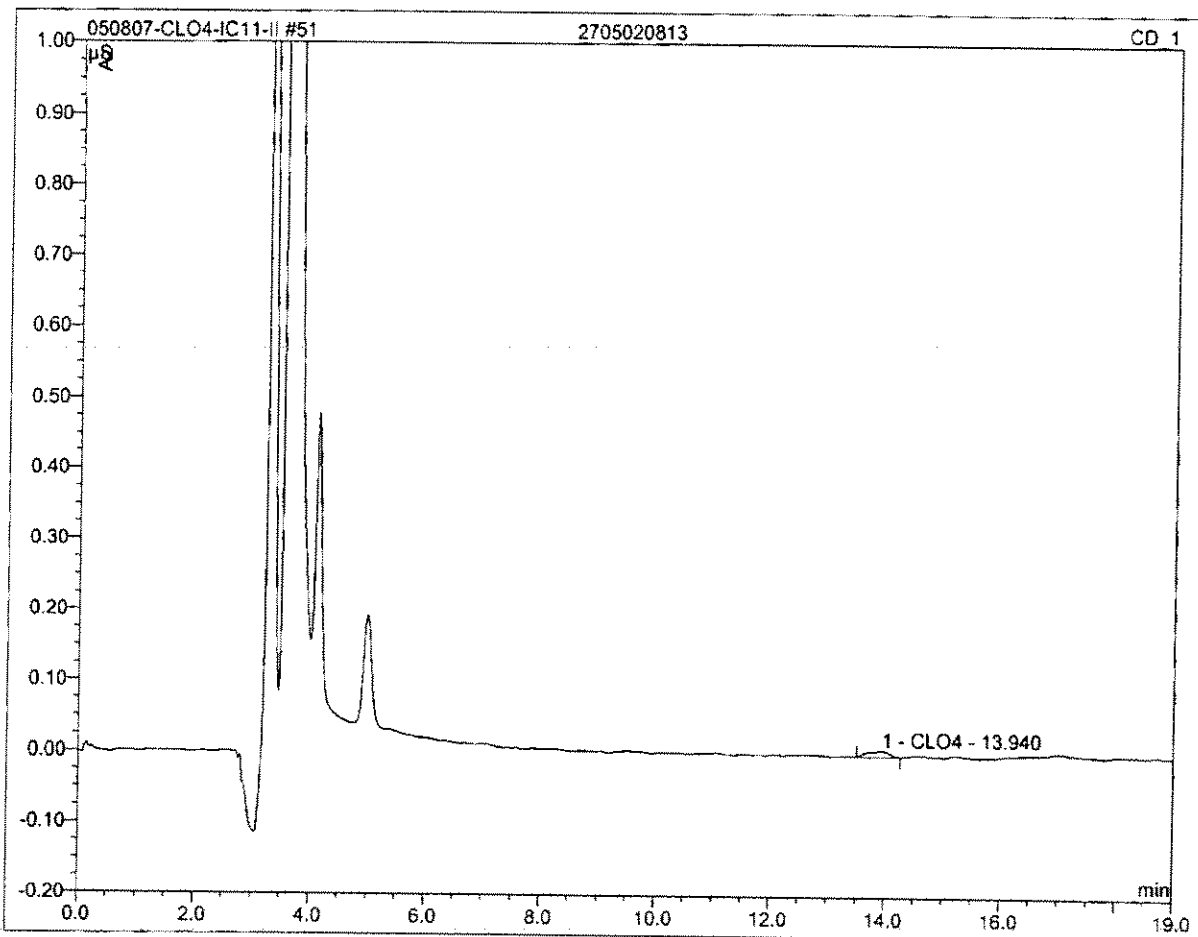
Sample Name:	LCS2	Channel:	CD_1
Sample Type:	unknown	Control Program:	Perchlorate-IC11
Recording Time:	05/09/2007 02:56	Quantif. Method:	IC#4-CLO4-LOW
Analyst:	Raja	Dilution Factor:	1.0000



No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	13.90	CLO4	0.057	0.024	100.00	25.597	BMB
Total:			0.057	0.024	100.00	25.597	

51 2705020813

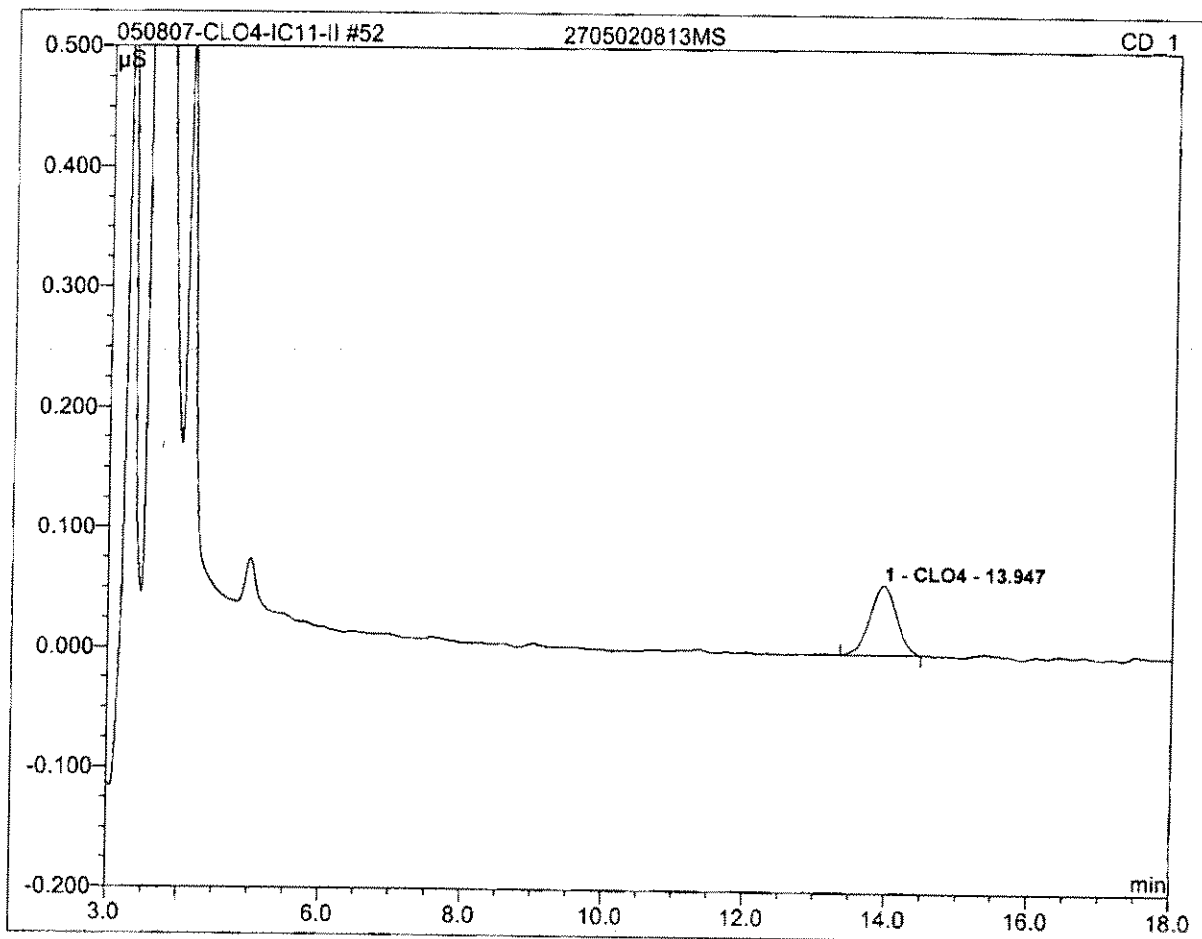
Sample Name:	2705020813	Channel:	CD_1
Sample Type:	unknown	Control Program:	Perchlorate-IC11
Recording Time:	05/09/2007 04:26	Quantif. Method:	IC#4-CLO4-LOW
Analyst:	Raja	Dilution Factor:	1.0000



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	13.94	CLO4	0.008	0.004	100.00	4.076	BMB
Total:			0.008	0.004	100.00	4.076	

52 2705020813MS

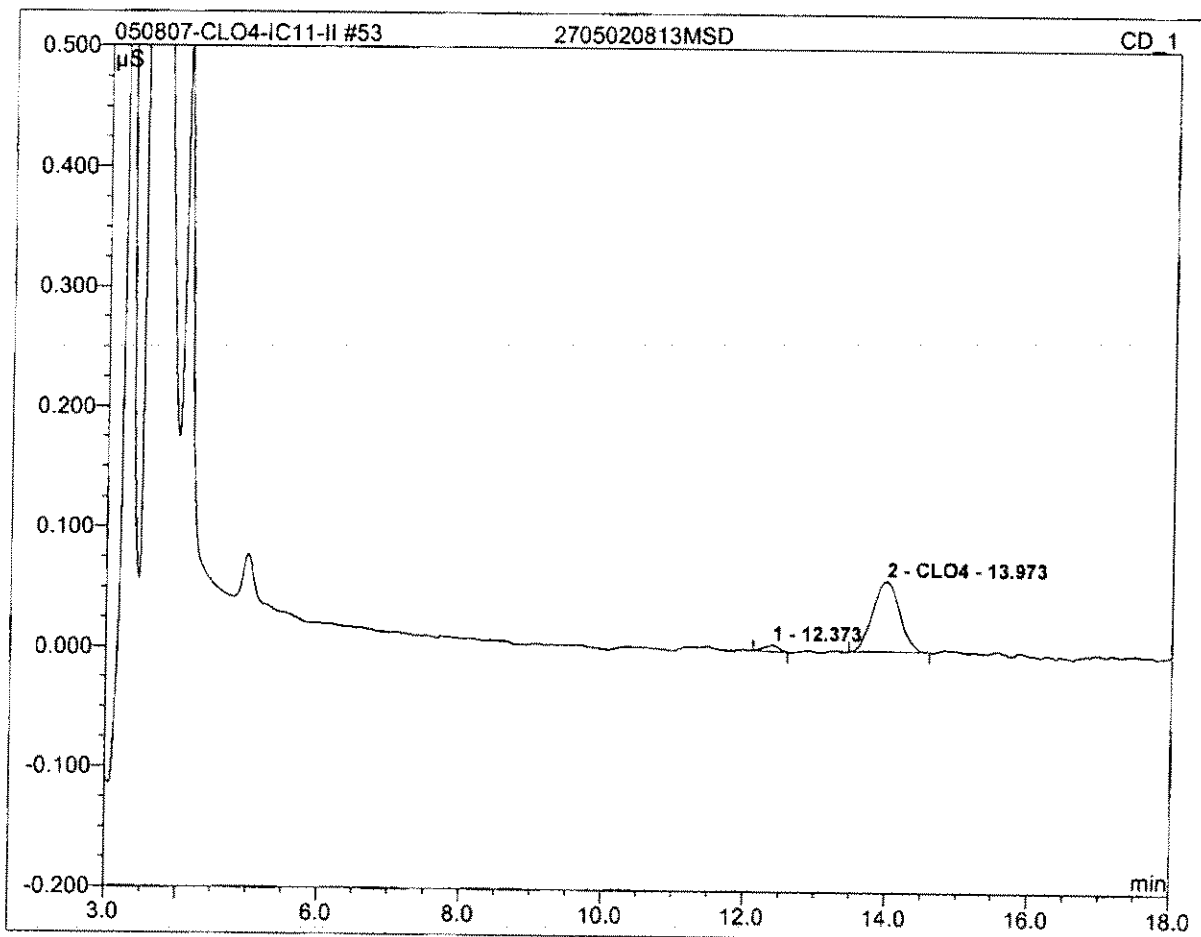
Sample Name:	2705020813MS	Channel:	CD_1
Sample Type:	unknown	Control Program:	Perchlorate-IC11
Recording Time:	05/09/2007 04:48	Quantif. Method:	IC#4-CLO4-LOW
Analyst:	Raja	Dilution Factor:	1.0000



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	13.95	CLO4	0.058	0.025	100.00	27.008	BMB
Total:			0.058	0.025	100.00	27.008	

53 2705020813MSD

Sample Name:	2705020813MSD	Channel:	CD_1
Sample Type:	unknown	Control Program:	Perchlorate-IC11
Recording Time:	05/09/2007 05:11	Quantif. Method:	IC#4-CLO4-LOW
Analyst:	Raja	Dilution Factor:	1.0000

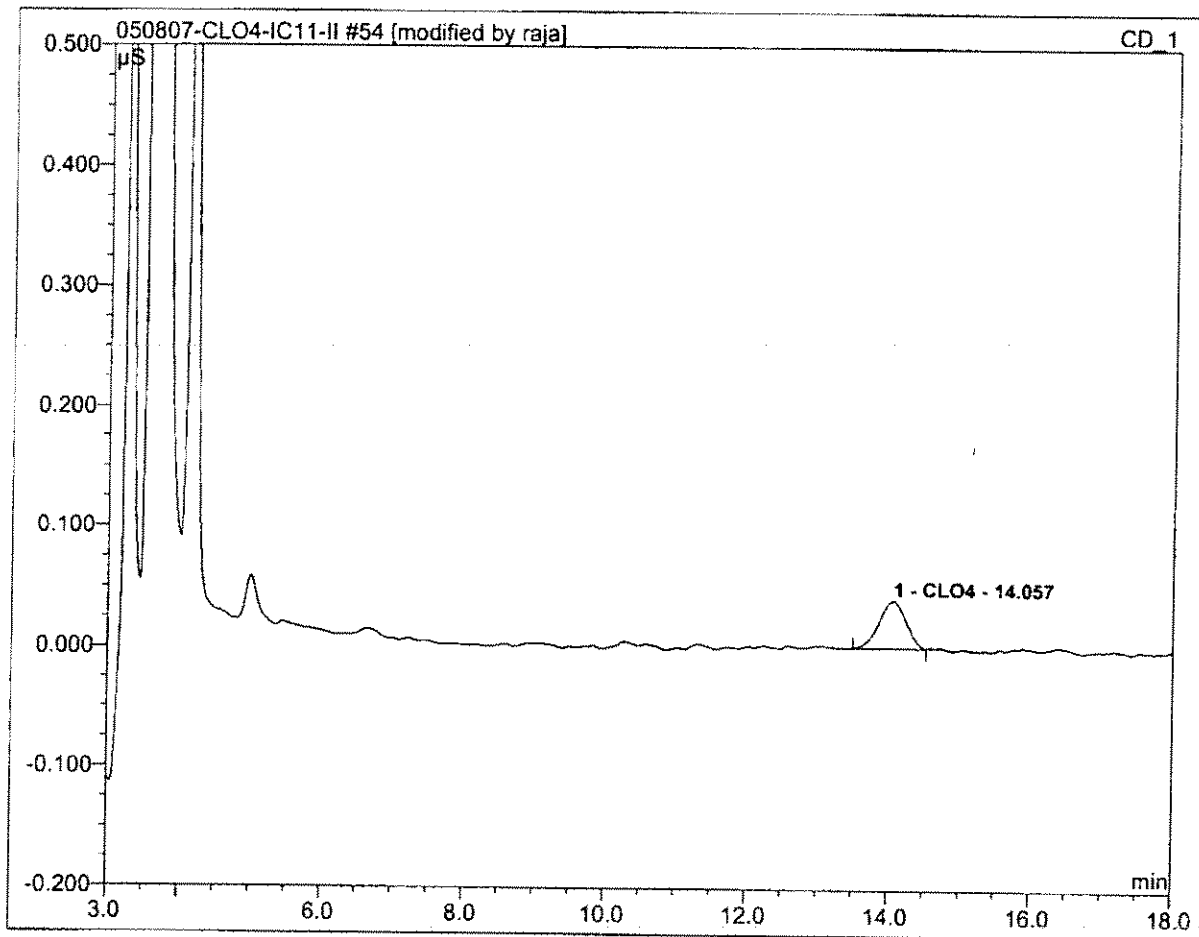


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
2	13.97	CLO4	0.059	0.026	95.38	27.540	BMB
Total:			0.059	0.026	95.38	27.540	

54 2705020854_1/50000

Sample Name: 2705020854_1/50000
Sample Type: unknown
Recording Time: 05/09/2007 05:33
Analyst: Raja

Channel: CD_1
Control Program: Perchlorate-IC11
Quantif. Method: IC#4-CLO4-LOW
Dilution Factor: 50000.0000

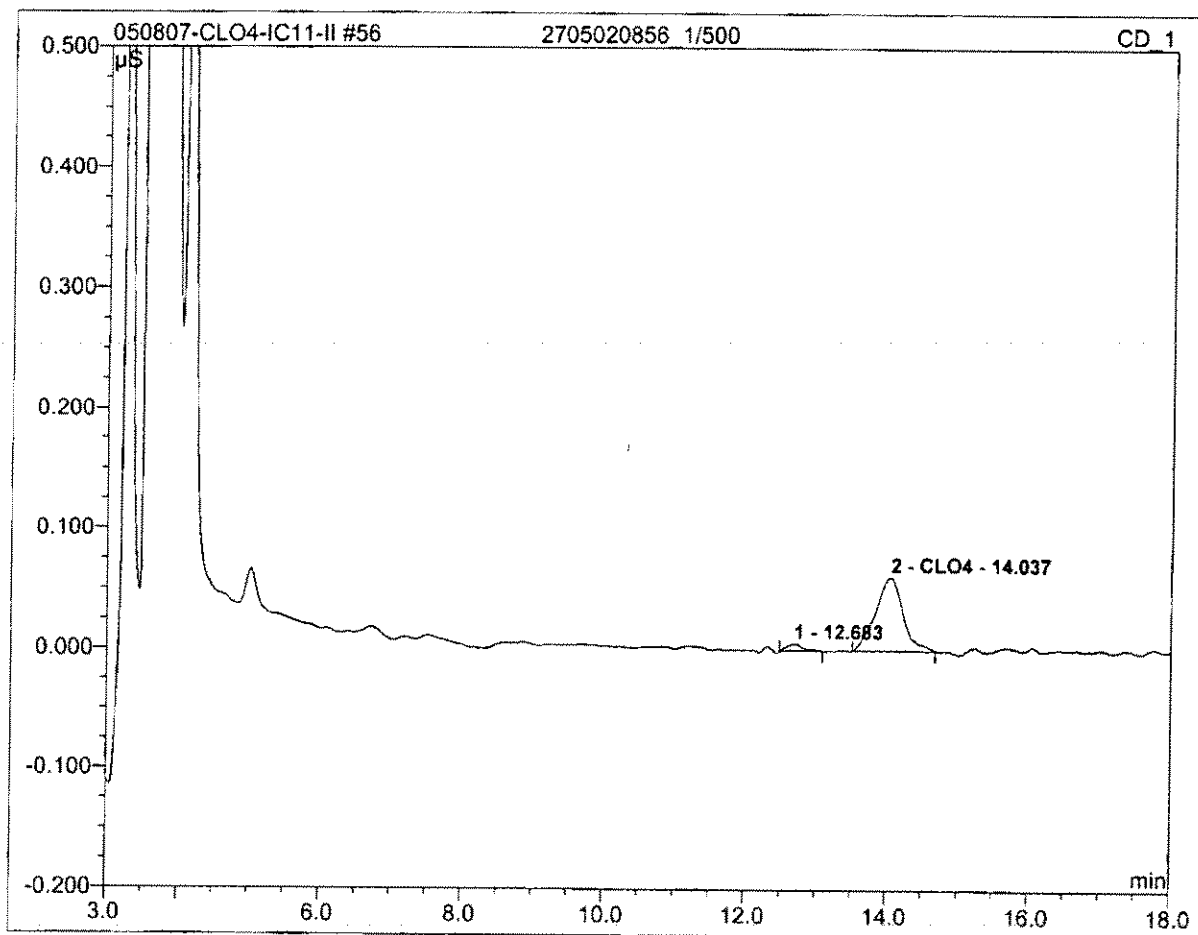


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	14.06	CLO4	0.040	0.017	100.00	931501.737	BMB*
Total:			0.040	0.017	100.00	931501.737	

56 2705020856_1/500

Sample Name: 2705020856_1/500
Sample Type: unknown
Recording Time: 05/09/2007 06:18
Analyst: Raja

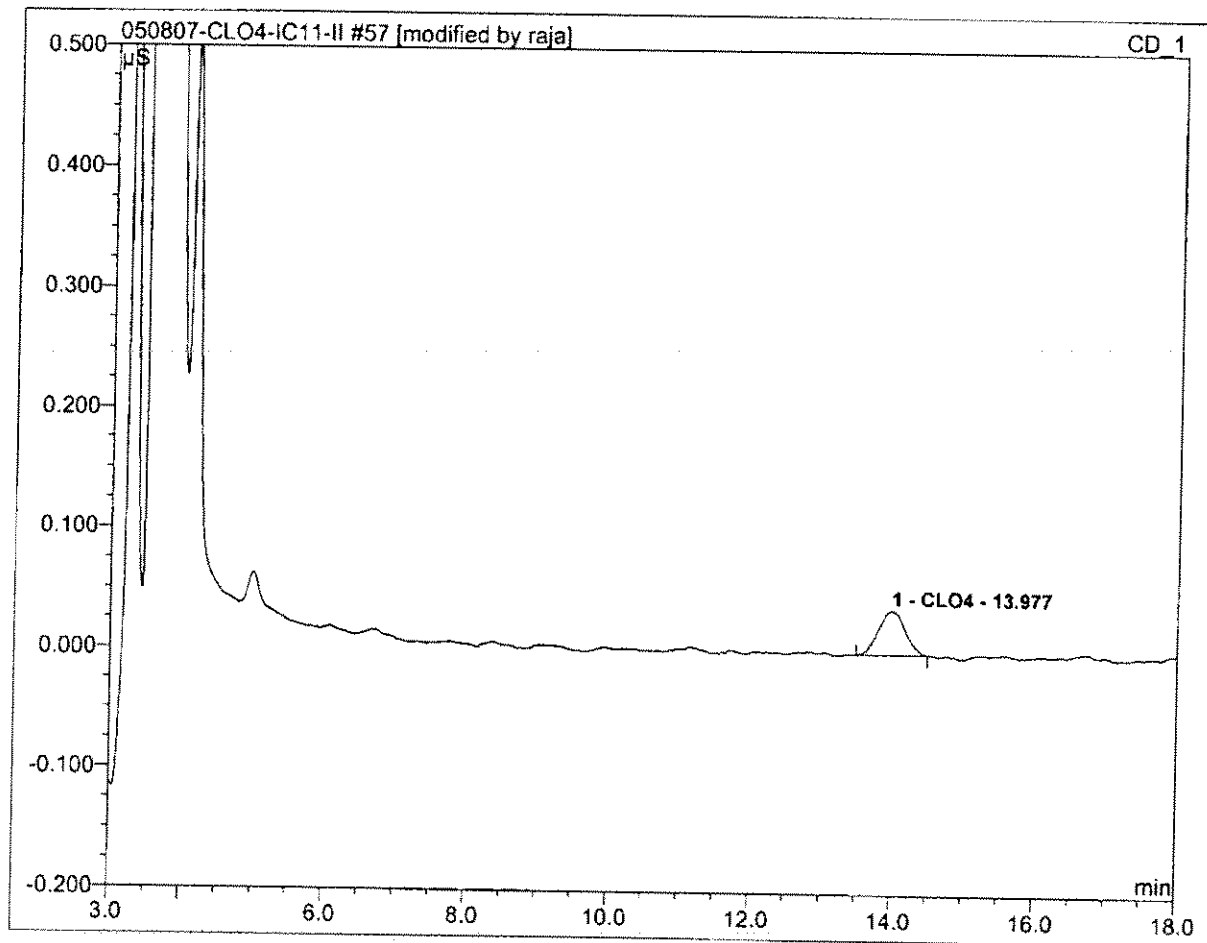
Channel: CD_1
Control Program: Perchlorate-IC11
Quantif. Method: IC#4-CLO4-LOW
Dilution Factor: 500.0000



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
2	14.04	CLO4	0.062	0.028	94.49	14738.736	BMB
Total:			0.062	0.028	94.49	14738.736	

57 2705020857_1/1000

Sample Name:	2705020857_1/1000	Channel:	CD_1
Sample Type:	unknown	Control Program:	Perchlorate-IC11
Recording Time:	05/09/2007 06:41	Quantif. Method:	IC#4-CLO4-LOW
Analyst:	Raja	Dilution Factor:	1000.0000

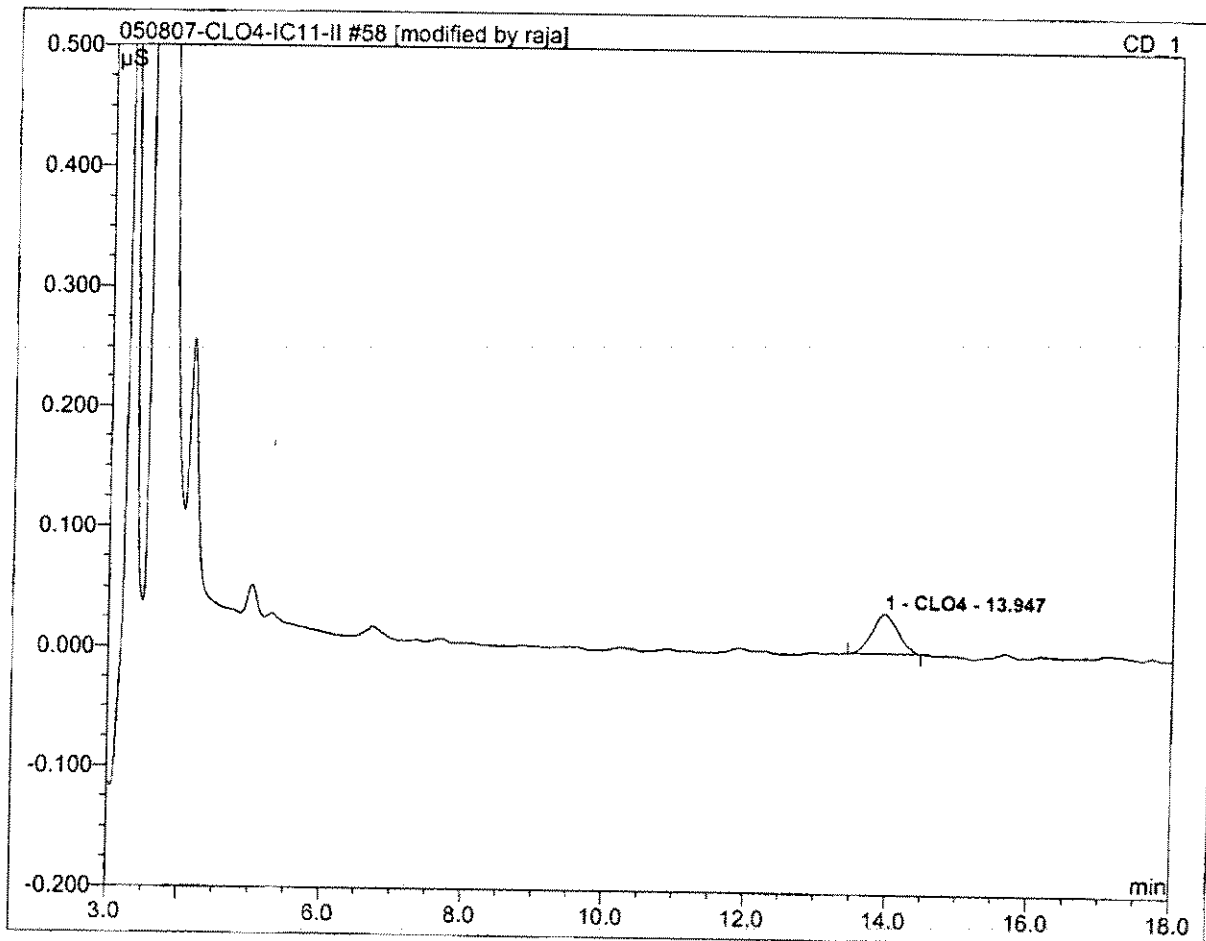


No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	13.98	CLO4	0.037	0.016	100.00	17334.128	BMB*
Total:			0.037	0.016	100.00	17334.128	

58 2705020858_1/50000

Sample Name: 2705020858_1/50000
Sample Type: unknown
Recording Time: 05/09/2007 07:03
Analyst: Raja

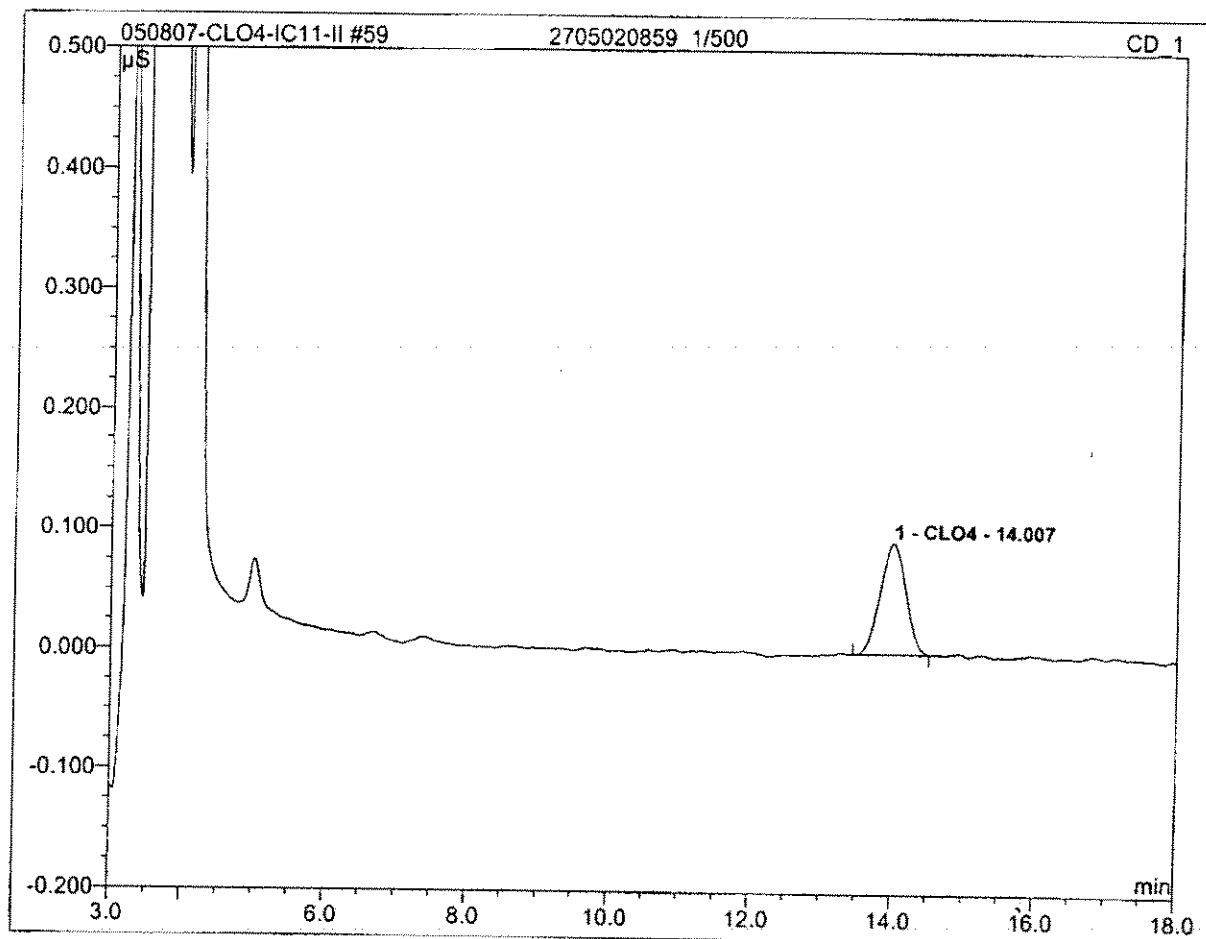
Channel: CD_1
Control Program: Perchlorate-IC11
Quantif. Method: IC#4-CLO4-LOW
Dilution Factor: 50000.0000



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	13.95	CLO4	0.033	0.014	100.00	756269.735	BMB*
Total:			0.033	0.014	100.00	756269.735	

59 2705020859_1/500

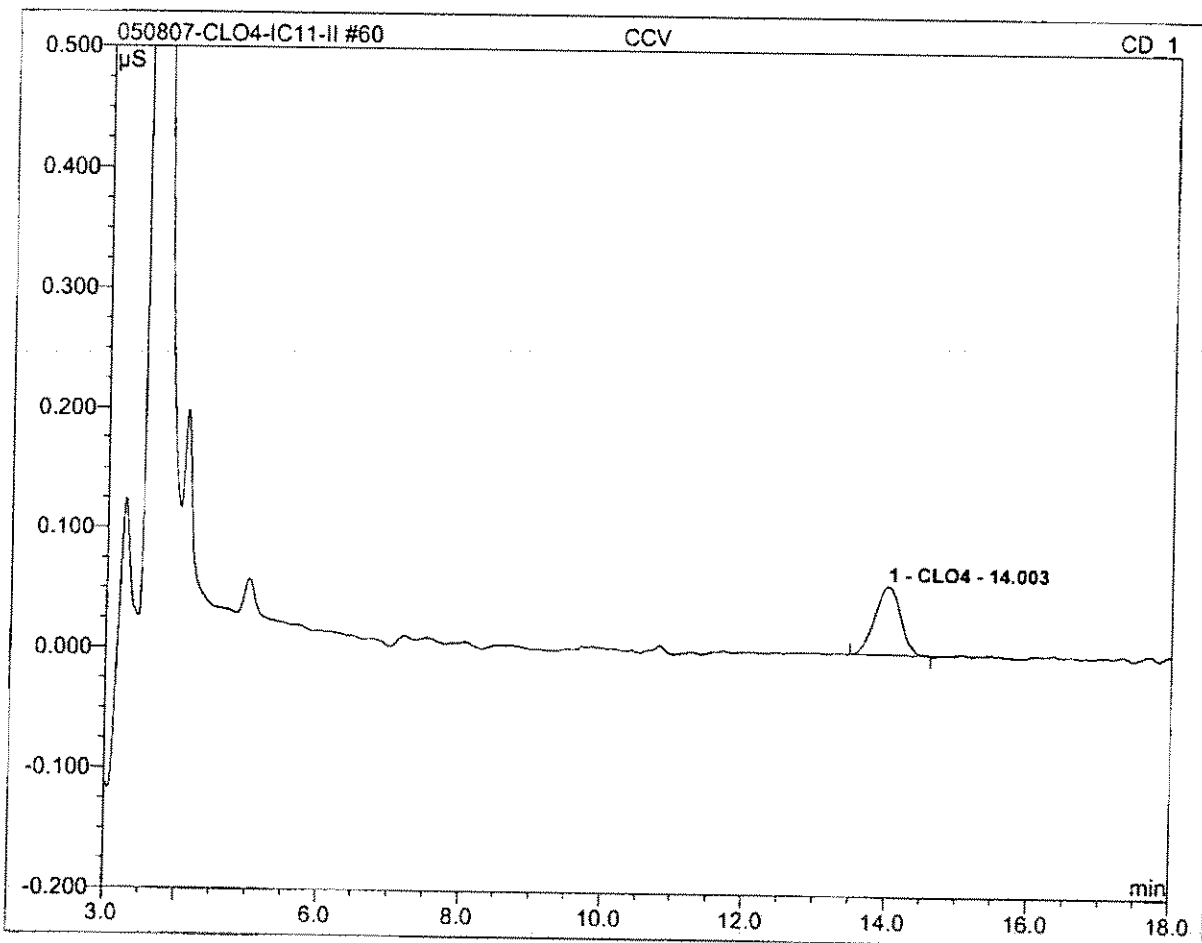
Sample Name:	2705020859_1/500	Channel:	CD_1
Sample Type:	unknown	Control Program:	Perchlorate-IC11
Recording Time:	05/09/2007 07:26	Quantif. Method:	IC#4-CLO4-LOW
Analyst:	Raja	Dilution Factor:	500.0000



No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	14.01	CLO4	0.092	0.039	100.00	20369.597	BMB
Total:			0.092	0.039	100.00	20369.597	

60 CCV

Sample Name:	CCV	Channel:	CD_1
Sample Type:	unknown	Control Program:	Perchlorate-IC11
Recording Time:	05/09/2007 07:48	Quantif. Method:	IC#4-CLO4-LOW
Analyst:	Raja	Dilution Factor:	1.0000

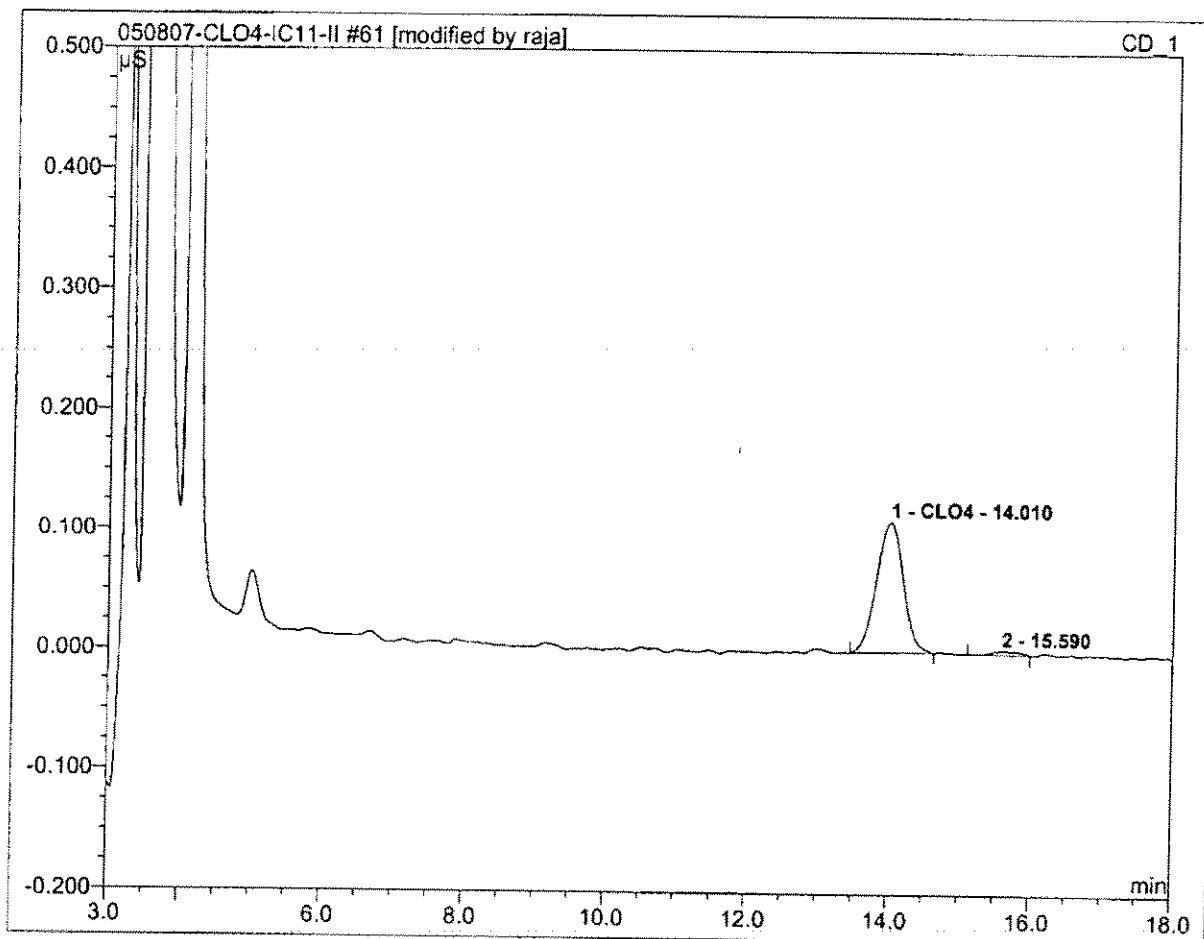


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	14.00	CLO4	0.057	0.024	100.00	25.541	BMB
Total:			0.057	0.024	100.00	25.541	

61 2705020860_1/10000

Sample Name: 2705020860_1/10000
 Sample Type: unknown
 Recording Time: 05/09/2007 08:10
 Analyst: Raja

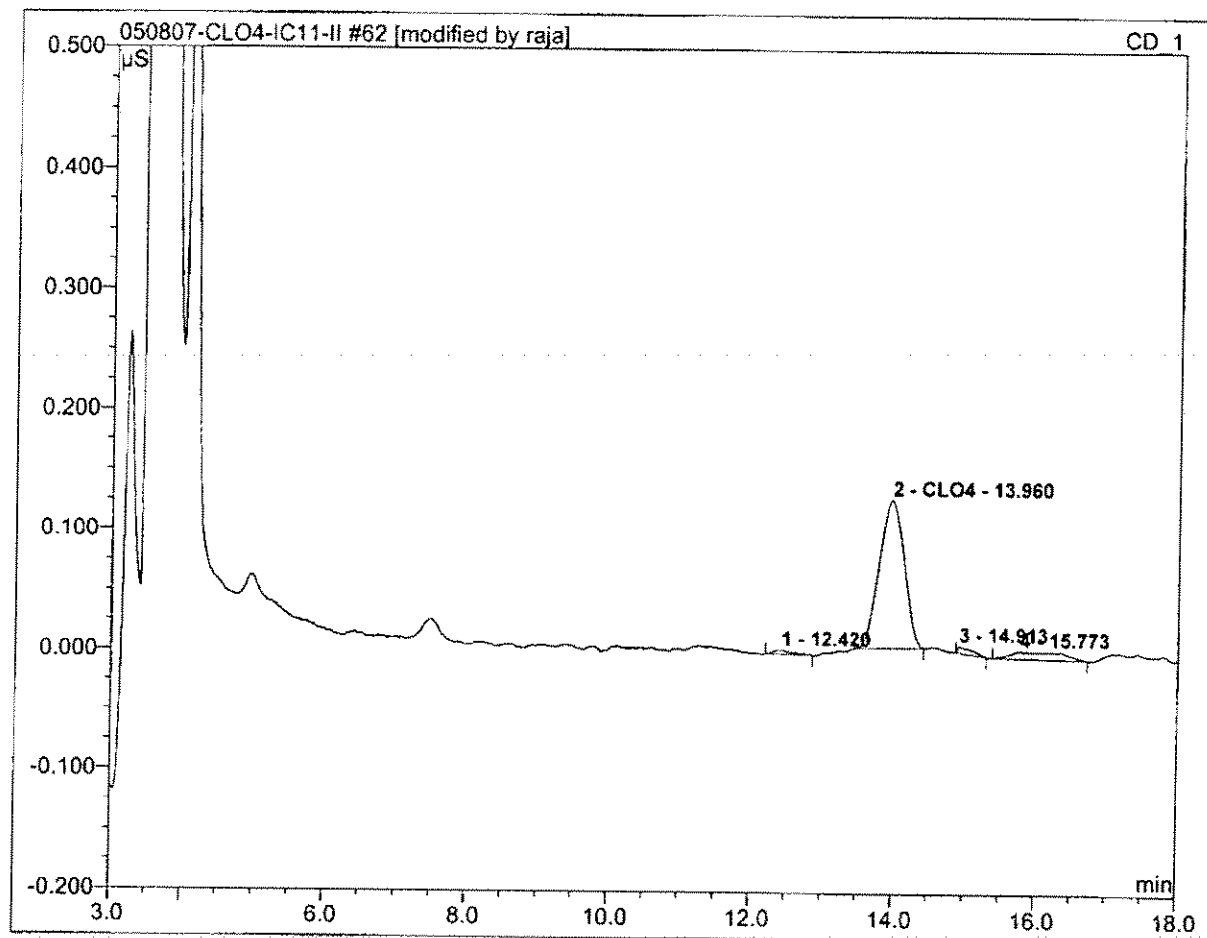
Channel: CD_1
 Control Program: Perchlorate-IC11
 Quantif. Method: IC#4-CLO4-LOW
 Dilution Factor: 10000.0000



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	14.01	CLO4	0.109	0.047	96.76	495388.172	BMB*
Total:			0.109	0.047	96.76	495388.172	

62 2705020861

Sample Name:	2705020861	Channel:	CD_1
Sample Type:	unknown	Control Program:	Perchlorate-IC11
Recording Time:	05/09/2007 08:33	Quantif. Method:	IC#4-CLO4-LOW
Analyst:	Raja	Dilution Factor:	1.0000

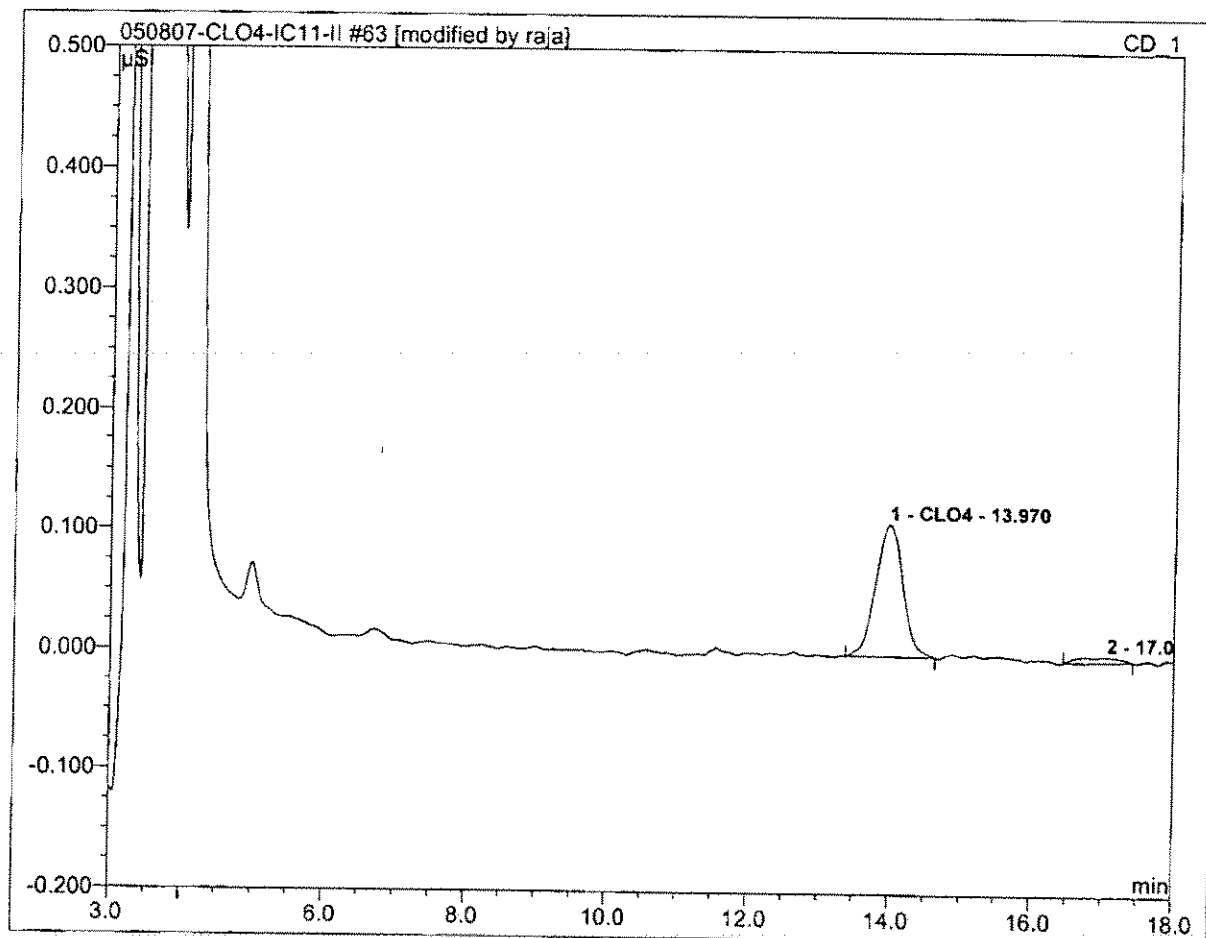


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
2	13.96	CLO4	0.123	0.050	86.20	52.429	BMB*
Total:			0.123	0.050	86.20	52.429	

63 2705020862_1/500

Sample Name: 2705020862_1/500
Sample Type: unknown
Recording Time: 05/09/2007 08:55
Analyst: Raja

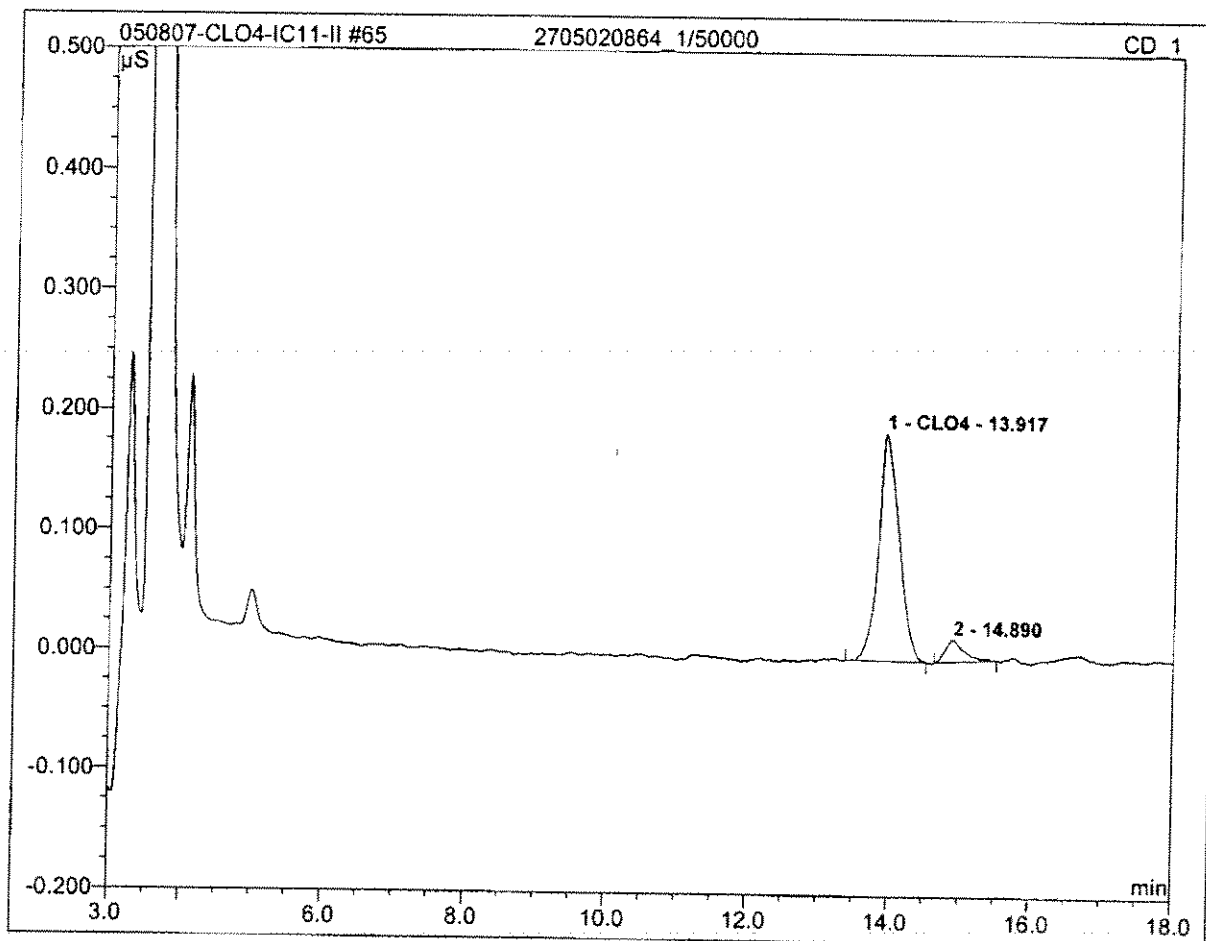
Channel: CD_1
Control Program: Perchlorate-IC11
Quantif. Method: IC#4-CLO4-LOW
Dilution Factor: 500.0000



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	13.97	CLO4	0.110	0.049	93.67	25596.904	BMB*
Total:			0.110	0.049	93.67	25596.904	

65 2705020864_1/50000

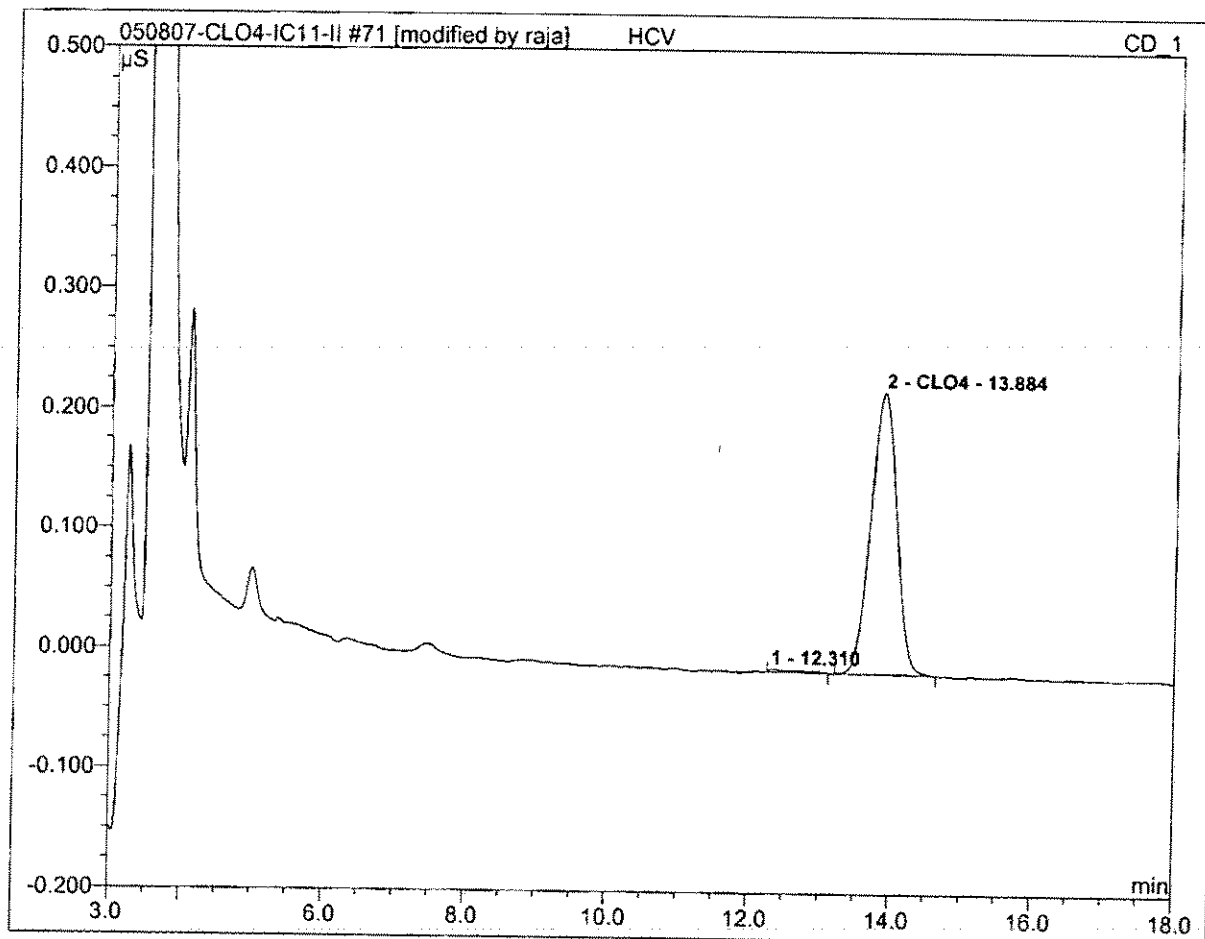
Sample Name:	2705020864_1/50000	Channel:	CD_1
Sample Type:	unknown	Control Program:	Perchlorate-IC11
Recording Time:	05/09/2007 09:40	Quantif. Method:	IC#4-CLO4-LOW
Analyst:	Raja	Dilution Factor:	50000.0000



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	13.92	CLO4	0.190	0.064	91.74	3308482.839	BMB
Total:			0.190	0.064	91.74	3308482.839	

71 HCV

Sample Name:	HCV	Channel:	CD_1
Sample Type:	unknown	Control Program:	Perchlorate-IC11
Recording Time:	05/09/2007 11:55	Quantif. Method:	IC#4-CLO4-LOW
Analyst:	Raja	Dilution Factor:	1.0000



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
2	13.88	CLO4	0.235	0.100	98.95	100.926	BMB*
Total:			0.235	0.100	98.95	100.926	

Perchlorate QC Checklist

rev: 27 Mar 03

Analysis Date: 050907 Analyst: Reje

QC'd by MA Date 16 May 07

Instrument: IC11 Calculated MCT Level: 3155 umhos/cm

Original IPC conductance: 3109 umhos/cm
PR Daily IPC conductance: 3075 umhos/cm

Calibration including QCS

☒ QCS (20ppb) recovery is within 90% - 110% (18-22ppb) to verify that the calibration curve (minimum 5 points) still holds.

☒ Calibration curve is reanalyzed if QCS fails. Correlation Coefficient is 0.995 or better.

Initial QC Check Samples (MBLANK, MRL, ICCSCV, IPC) to be analyzed with every batch (up to 20 samples) or part thereof

☒ MBLANK is analyzed before samples. Perchlorate, if present, is < or = half of the MRL.

N/A L-ClO4 only: ICCSCV at 2ppb is within 50%-150% (1-3ppb)

☒ ClO4 only: MRL at 4ppb is within 75%-125% (3-5ppb)

☒ IPC (25ppb) recovery is between 80%-120% (20-30ppb)

☒ IPC retention time is within 5% of the retention time of the standards

☒ IPC Conductance level is within 10% of the original

$$PDA/H = \frac{8.1\%}{7.4\%} = 1.09\%$$

16 May 07

LCS/LCSD (25ppb)

☒ Recoveries are between 90%-110% (22.5 - 27.5ppb)

☒ One pair is analyzed per batch (up to 20 samples) or part thereof

MS/MSD (25ppb) NOTE: For UCMR, MS/MSD concentrations alternate between 4ppb and 25ppb

☒ Recoveries are within 80%-120% (20-30ppb) for 25ppb spike N/A (3.2-4.8ppb) for 4ppb spike

☒ One pair is analyzed per batch (up to 20 samples) or part thereof

☒ RPD between MS and MSD is within 15%.

Continuing Calibration Verification (MCV, HCV) NOTE: For UCMR ECV and MCV are required

☒ Verification Checks alternate between mid- and high-level during the analysis (low- and mid-level for UCMR)

☒ MCV (25ppb) recovery is between 85%-115% (21.25 - 28.75ppb)

☒ HCV (100ppb) recovery is between 85%-115% (85-115ppb) N/A ECV (4ppb) recovery is between 75%-125% (3.0-5.0)

Pretreat and include the following QC parameters for any batch or part thereof containing samples requiring pretreatment

N/A One Laboratory Reagent Blank (LRB). Perchlorate is < or = half of MRL.

N/A One pair of Laboratory Control Samples (LCS/LCSD). Recovery of perchlorate is between 85%-115%.

N/A One Pair of Laboratory Fortified Matrices (MS/MSD). Recoveries are between 80%-120%

Samples

☒ All samples are analyzed within 28 days of collection.

☒ All samples are analyzed within MCT Conductance limit.

QIR

N/A QIR needed for failed QC

N/A QIR needed for samples analyzed outside of hold time

Sample No.	Sample Name	Dil.Fac.	Comment	Time	Amount	
					CLO4	
					CD_1	
1	autocal1	1.0		05.08.07 09:46	n.a.	
2	autocal2	1.0	RAJA060913-2	05.08.07 10:09	2.1473	
3	autocal3	1.0	RAJA060913-3	05.08.07 10:31	4.1725	
4	autocal4	1.0	RAJA060913-4	05.08.07 10:53	9.6924	
5	autocal5	1.0	RAJA060913-5	05.08.07 11:16	24.5749	
6	autocal6	1.0	RAJA060913-6	05.08.07 11:38	50.3783	
7	autocal7	1.0	RAJA060913-7	05.08.07 12:01	99.9376	
8	WASH	1.0		05.09.07 12:17	n.a.	
9	QCS	1.0		05.09.07 12:40	21.0806	105%
10	IPC	1.0		05.09.07 13:02	25.5045	102%
11	MBLK	1.0		05.09.07 13:25	✓ n.a.	
12	MRL-2	1.0		05.09.07 13:47	2.3081	115%
13	MRL-4	1.0		05.09.07 14:10	✓ 3.7591	99.0%
14	LCS1	1.0		05.09.07 14:32	✓ 26.0212	104%
15	LCS2	1.0		05.09.07 14:55	✓ 25.7855	103%
16	2705010747_1/5-DNR	5.0		05.09.07 15:16	✓ 12536.0232	
17	2705010747_1/500-DNR	500.0		05.09.07 15:38	✓ 25593.3421	
18	2705020799_1/100	100.0		05.09.07 16:00	✓ 8764.4681	
19	2705020802_1/5	5.0		05.09.07 16:23	✓ 8.1383	
20	2705020806_1/100	100.0		05.09.07 16:45	✓ 3496.0657	
21	2705020807_1/100	100.0		05.09.07 17:08	✓ 2809.2602	
22	2705020808_1/100	100.0		05.09.07 17:30	✓ 9004.0498	
23	2705020808MS	1.0		05.09.07 17:52	-112.3881	NA over range
24	2705020808MSD	1.0		05.09.07 18:15	-111.8943	NA over range
25	2705020855_1/50000 ✓	50000.0		05.09.07 18:37	✓ 578229.8532	
26	2705020855MS	1.0		05.09.07 19:00	✓ 35.2713	23.7-94.8%
27	2705020855MSD	1.0		05.09.07 19:22	✓ 35.3521	23.8-95.2%
28	2705020863_1/500 ✓	500.0		05.09.07 19:44	✓ 21758.6523	
29	2705030127_1/500	500.0		05.09.07 20:07	✓ 22905.7995	
30	CCV	1.0		05.09.07 20:29	-24.0076	96.0%
31	2705030133_1/1000	1000.0		05.09.07 20:51	✓ 30292.6899	
32	2705030134_1/1000	1000.0		05.09.07 21:14	✓ 55613.3679	
33	2705060135_1/100-DNR	100.0		05.09.07 21:36	-10770.1333	
34	2705030180_1/500	500.0		05.09.07 21:59	✓ 30510.1957	
35	2705030181_1/50	50.0		05.09.07 22:21	✓ 1908.3731	
36	2705030183	1.0		05.09.07 22:43	✓ 22.0856	
37	2705030206_1/5-DNR	5.0		05.09.07 23:06	-3165.4950	
38	2705030207_1/5-DNR	5.0		05.09.07 23:28	-3051.6512	
39	2705030209_1/2	2.0		05.09.07 23:51	✓ n.a.	
40	2705030210_1/50-DNR	50.0		05.10.07 00:13	-7220.8146	
41	HCV	1.0		05.10.07 00:35	-103.8064	104%
42	STOP	1.0		05.10.07 00:58	n.a.	

VB-NMS/10/07

Sequence: 050907-CLO4-IC11-II
Operator: raja

Page 1 of 2
Printed: 5/11/2007 4:39:21 PM

Title:
Datasource: IC-SERVER_local
Location: IC11\2007\MAY
Timebase: IC11
#Samples: 42

Created: 5/8/2007 9:40:10 PM by raja
Last Update: 5/10/2007 1:01:56 PM by raja

No.	Name	Dil. Factor	Type	Comment	Status	Program
1	autocal1	1.0000	Standard		Finished	Perchlorate-IC11
2	autocal2	1.0000	Standard	RAJA060913-2	Finished	Perchlorate-IC11
3	autocal3	1.0000	Standard	RAJA060913-3	Finished	Perchlorate-IC11
4	autocal4	1.0000	Standard	RAJA060913-4	Finished	Perchlorate-IC11
5	autocal5	1.0000	Standard	RAJA060913-5	Finished	Perchlorate-IC11
6	autocal6	1.0000	Standard	RAJA060913-6	Finished	Perchlorate-IC11
7	autocal7	1.0000	Standard	RAJA060913-7	Finished	Perchlorate-IC11
8	WASH	1.0000	Unknown		Finished	Perchlorate-IC11
9	QCS	1.0000	Unknown		Finished	Perchlorate-IC11
10	IPC	1.0000	Unknown		Finished	Perchlorate-IC11
11	MBLK	1.0000	Unknown		Finished	Perchlorate-IC11
12	MRL-2	1.0000	Unknown		Finished	Perchlorate-IC11
13	MRL-4	1.0000	Unknown		Finished	Perchlorate-IC11
14	LCS1	1.0000	Unknown		Finished	Perchlorate-IC11
15	LCS2	1.0000	Unknown		Finished	Perchlorate-IC11
16	2705010747_1/5-DNR	5.0000	Unknown		Finished	Perchlorate-IC11
17	2705010747_1/500-DNR	500.0000	Unknown		Finished	Perchlorate-IC11
18	2705020799_1/100	100.0000	Unknown		Finished	Perchlorate-IC11
19	2705020802_1/5	5.0000	Unknown		Finished	Perchlorate-IC11
20	2705020806_1/100	100.0000	Unknown		Finished	Perchlorate-IC11
21	2705020807_1/100	100.0000	Unknown		Finished	Perchlorate-IC11
22	2705020808_1/100	100.0000	Unknown		Finished	Perchlorate-IC11
23	2705020808MS	1.0000	Unknown		Finished	Perchlorate-IC11
24	2705020808MSD	1.0000	Unknown		Finished	Perchlorate-IC11
25	2705020855_1/50000	50000.0000	Unknown		Finished	Perchlorate-IC11
26	2705020855MS	1.0000	Unknown		Finished	Perchlorate-IC11
27	2705020855MSD	1.0000	Unknown		Finished	Perchlorate-IC11
28	2705020863_1/500	500.0000	Unknown		Finished	Perchlorate-IC11
29	2705030127_1/500	500.0000	Unknown		Finished	Perchlorate-IC11
30	CCV	1.0000	Unknown		Finished	Perchlorate-IC11
31	2705030133_1/1000	1000.0000	Unknown		Finished	Perchlorate-IC11
32	2705030134_1/1000	1000.0000	Unknown		Finished	Perchlorate-IC11
33	2705060135_1/100-DNR	100.0000	Unknown		Finished	Perchlorate-IC11
34	2705030180_1/500	500.0000	Unknown		Finished	Perchlorate-IC11
35	2705030181_1/50	50.0000	Unknown		Finished	Perchlorate-IC11
36	2705030183	1.0000	Unknown		Finished	Perchlorate-IC11
37	2705030206_1/5-DNR	5.0000	Unknown		Finished	Perchlorate-IC11
38	2705030207_1/5-DNR	5.0000	Unknown		Finished	Perchlorate-IC11
39	2705030209_1/2	2.0000	Unknown		Finished	Perchlorate-IC11
40	2705030210_1/50-DNR	50.0000	Unknown		Finished	Perchlorate-IC11
41	HCV	1.0000	Unknown		Finished	Perchlorate-IC11
42	STOP	1.0000	Unknown		Interrupted	IC11 Stop

Sequence: 050907-CLO4-IC11-II
Operator: raja

Page 2 of 2
Printed: 5/11/2007 4:39:21 PM

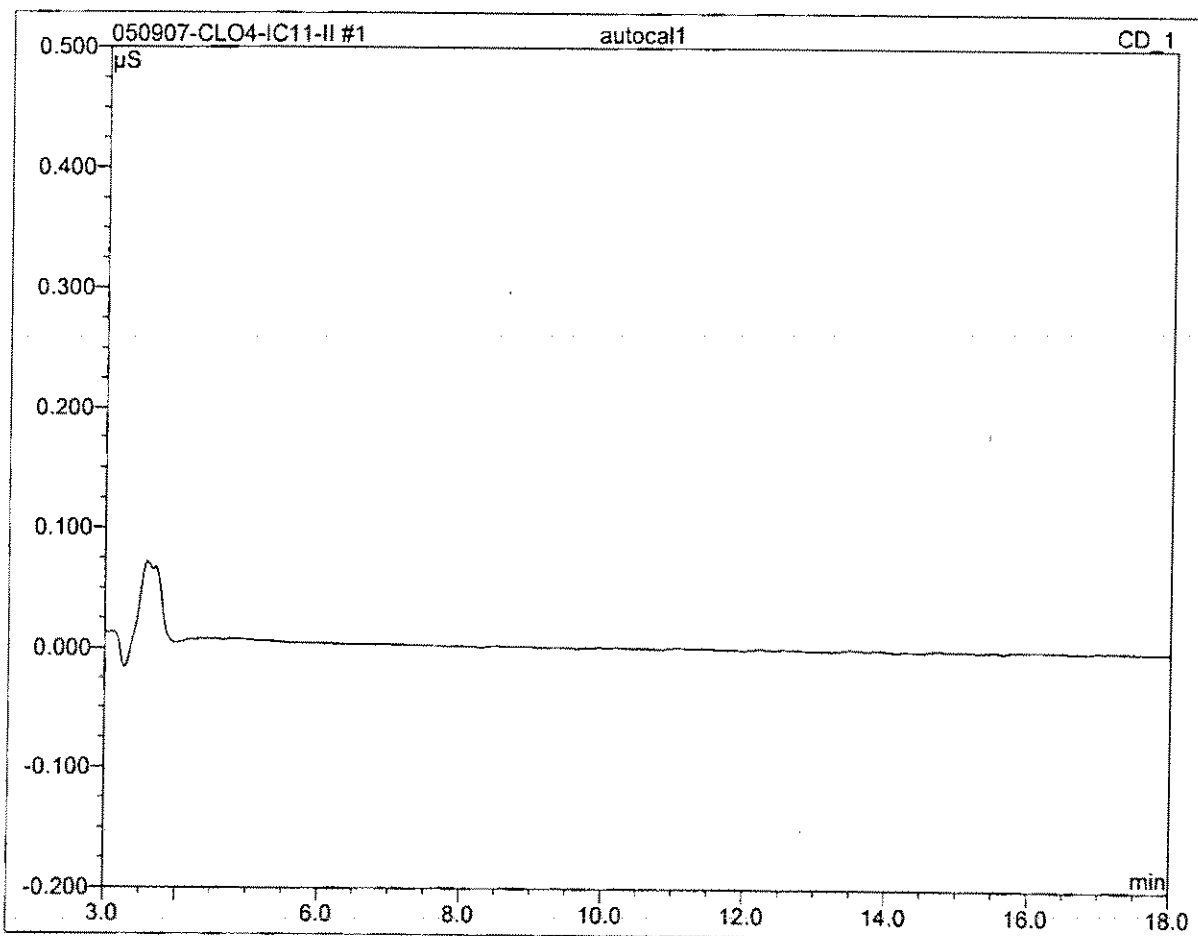
Title:
Datasource: IC-SERVER_local
Location: IC11\2007MAY
Timebase: IC11
#Samples: 42

Created: 5/8/2007 9:40:10 PM by raja
Last Update: 5/10/2007 1:01:56 PM by raja

No.	Name	Method	Inj. Date/Time	*Analyst
1	autocal1	IC#4-CLO4-LOW	5/8/2007 9:46:41 AM	Raja
2	autocal2	IC#4-CLO4-LOW	5/8/2007 10:09:05 AM	Raja
3	autocal3	IC#4-CLO4-LOW	5/8/2007 10:31:28 AM	Raja
4	autocal4	IC#4-CLO4-LOW	5/8/2007 10:53:52 AM	Raja
5	autocal5	IC#4-CLO4-LOW	5/8/2007 11:16:15 AM	Raja
6	autocal6	IC#4-CLO4-LOW	5/8/2007 11:38:39 AM	Raja
7	autocal7	IC#4-CLO4-LOW	5/8/2007 12:01:03 PM	Raja
8	WASH	IC#4-CLO4-LOW	5/9/2007 12:17:54 PM	Raja
9	QCS	IC#4-CLO4-LOW	5/9/2007 12:40:21 PM	Raja
10	IPC	IC#4-CLO4-LOW	5/9/2007 1:02:48 PM	Raja
11	MBLK	IC#4-CLO4-LOW	5/9/2007 1:25:15 PM	Raja
12	MRL-2	IC#4-CLO4-LOW	5/9/2007 1:47:42 PM	Raja
13	MRL-4	IC#4-CLO4-LOW	5/9/2007 2:10:09 PM	Raja
14	LCS1	IC#4-CLO4-LOW	5/9/2007 2:32:36 PM	Raja
15	LCS2	IC#4-CLO4-LOW	5/9/2007 2:55:03 PM	Raja
16	2705010747_1/5-DNR	IC#4-CLO4-LOW	5/9/2007 3:16:11 PM	Raja
17	2705010747_1/500-DNR	IC#4-CLO4-LOW	5/9/2007 3:38:29 PM	Raja
18	2705020799_1/100	IC#4-CLO4-LOW	5/9/2007 4:00:53 PM	Raja
19	2705020802_1/5	IC#4-CLO4-LOW	5/9/2007 4:23:16 PM	Raja
20	2705020806_1/100	IC#4-CLO4-LOW	5/9/2007 4:45:40 PM	Raja
21	2705020807_1/100	IC#4-CLO4-LOW	5/9/2007 5:08:04 PM	Raja
22	2705020808_1/100	IC#4-CLO4-LOW	5/9/2007 5:30:27 PM	Raja
23	2705020808MS	IC#4-CLO4-LOW	5/9/2007 5:52:51 PM	Raja
24	2705020808MSD	IC#4-CLO4-LOW	5/9/2007 6:15:15 PM	Raja
25	2705020855_1/50000	IC#4-CLO4-LOW	5/9/2007 6:37:38 PM	Raja
26	2705020855MS	IC#4-CLO4-LOW	5/9/2007 7:00:02 PM	Raja
27	2705020855MSD	IC#4-CLO4-LOW	5/9/2007 7:22:25 PM	Raja
28	2705020863_1/500	IC#4-CLO4-LOW	5/9/2007 7:44:49 PM	Raja
29	2705030127_1/500	IC#4-CLO4-LOW	5/9/2007 8:07:12 PM	Raja
30	CCV	IC#4-CLO4-LOW	5/9/2007 8:29:36 PM	Raja
31	2705030133_1/1000	IC#4-CLO4-LOW	5/9/2007 8:51:59 PM	Raja
32	2705030134_1/1000	IC#4-CLO4-LOW	5/9/2007 9:14:23 PM	Raja
33	2705060135_1/100-DNR	IC#4-CLO4-LOW	5/9/2007 9:36:47 PM	Raja
34	2705030180_1/500	IC#4-CLO4-LOW	5/9/2007 9:59:10 PM	Raja
35	2705030181_1/50	IC#4-CLO4-LOW	5/9/2007 10:21:34 PM	Raja
36	2705030183	IC#4-CLO4-LOW	5/9/2007 10:43:57 PM	Raja
37	2705030206_1/5-DNR	IC#4-CLO4-LOW	5/9/2007 11:06:21 PM	Raja
38	2705030207_1/5-DNR	IC#4-CLO4-LOW	5/9/2007 11:28:45 PM	Raja
39	2705030209_1/2	IC#4-CLO4-LOW	5/9/2007 11:51:08 PM	Raja
40	2705030210_1/50-DNR	IC#4-CLO4-LOW	5/10/2007 12:13:33 AM	Raja
41	HCV	IC#4-CLO4-LOW	5/10/2007 12:35:58 AM	Raja
42	STOP	IC#4-CLO4-LOW	5/10/2007 12:58:22 AM	Raja

1 autocal1

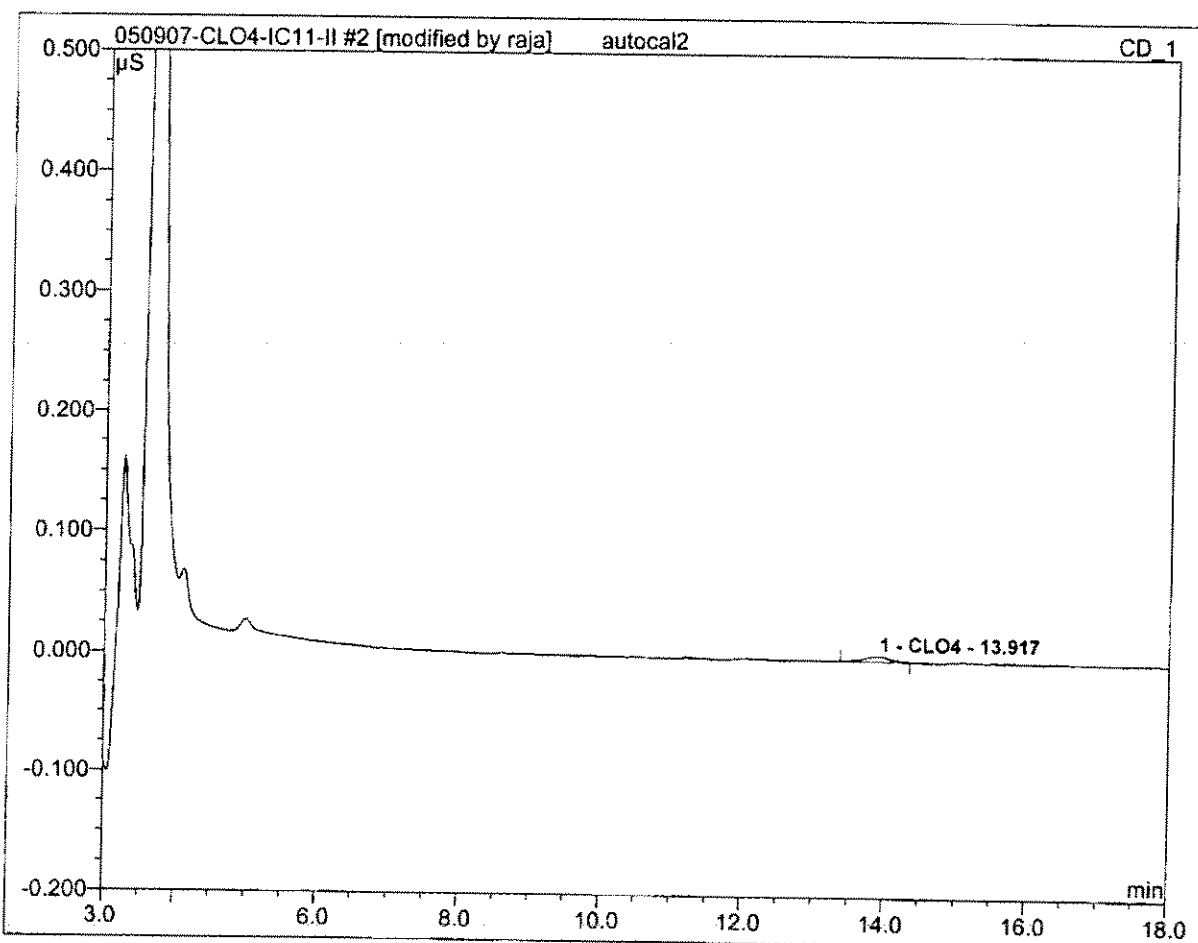
Sample Name:	autocal1	Channel:	CD_1
Sample Type:	standard	Control Program:	Perchlorate-IC11
Recording Time:	05/08/2007 09:46	Quantif. Method:	IC#4-CLO4-LOW
Analyst:	Raja	Dilution Factor:	1.0000



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
Total:			0.000	0.000	0.00	0.000	

2 autocal2**RAJA060913-2**

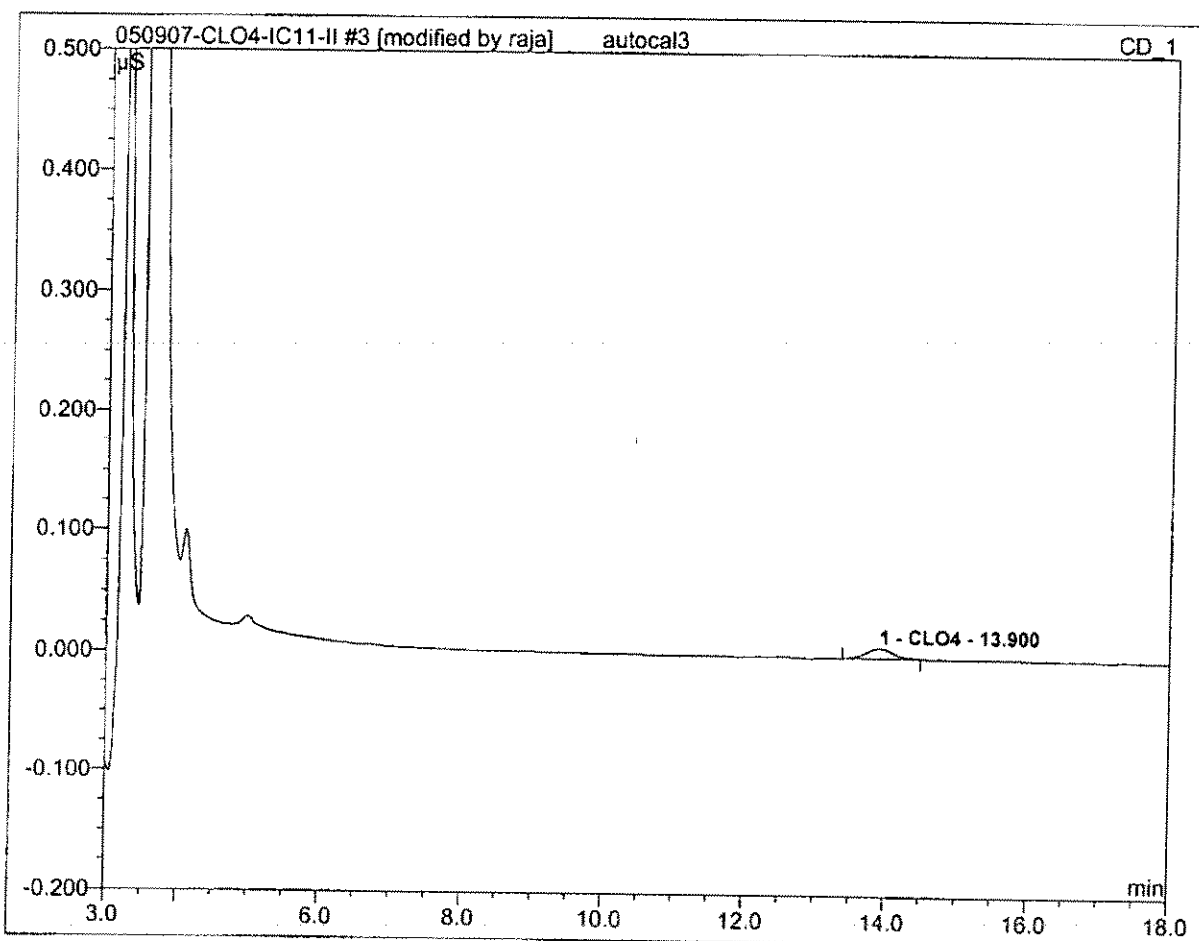
Sample Name:	autocal2	Channel:	CD_1
Sample Type:	standard	Control Program:	Perchlorate-IC11
Recording Time:	05/08/2007 10:09	Quantif. Method:	IC#4-CLO4-LOW
Analyst:	Raja	Dilution Factor:	1.0000



No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	13.92	CLO4	0.004	0.002	100.00	2.147	BMB*
Total:			0.004	0.002	100.00	2.147	

3 autocal3**RAJA060913-3**

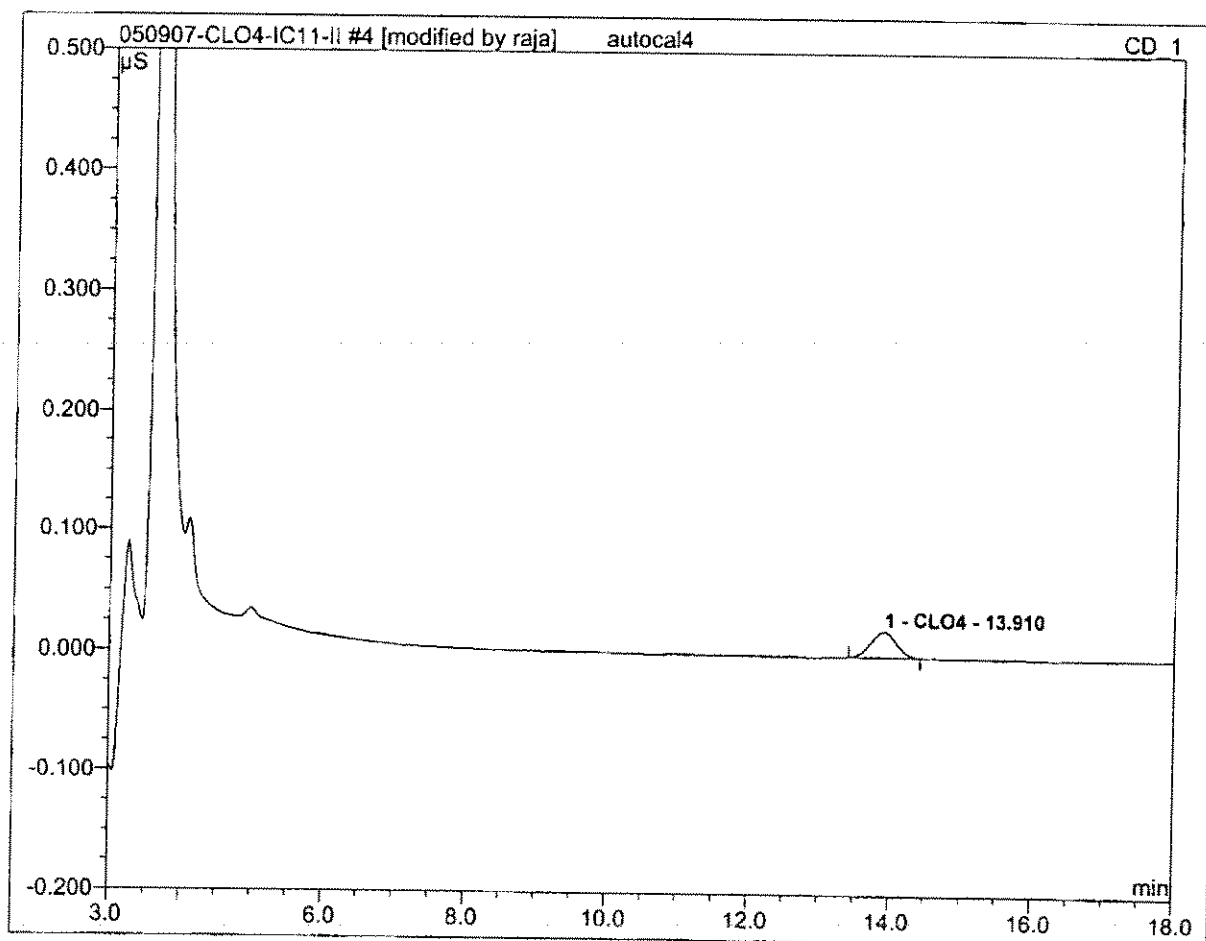
Sample Name:	autocal3	Channel:	CD_1
Sample Type:	standard	Control Program:	Perchlorate-IC11
Recording Time:	05/08/2007 10:31	Quantif. Method:	IC#4-CLO4-LOW
Analyst:	Raja	Dilution Factor:	1.0000



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	13.90	CLO4	0.009	0.004	100.00	4.173	BMB*
Total:			0.009	0.004	100.00	4.173	

4 autocal4**RAJA060913-4**

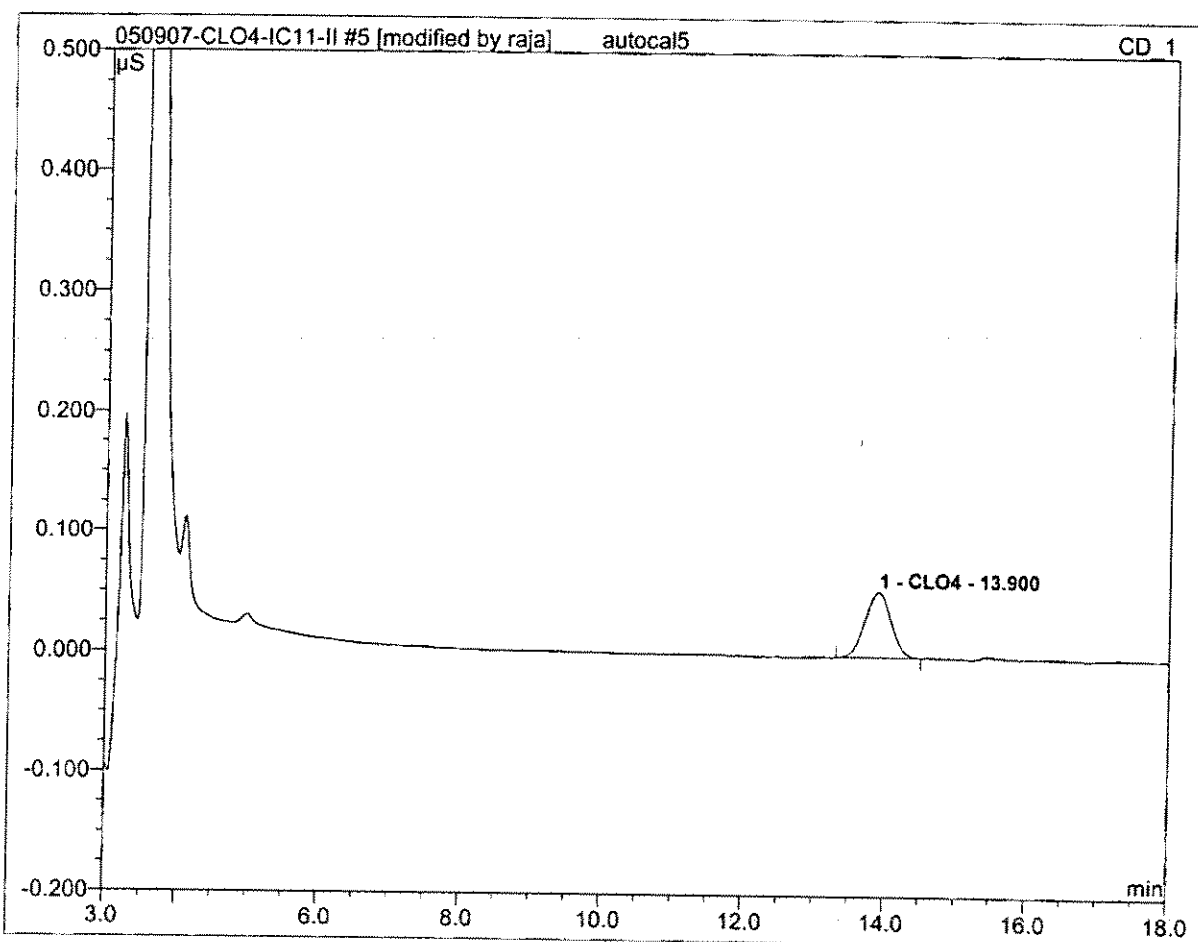
Sample Name:	autocal4	Channel:	CD_1
Sample Type:	standard	Control Program:	Perchlorate-IC11
Recording Time:	05/08/2007 10:53	Quantif. Method:	IC#4-CLO4-LOW
Analyst:	Raja	Dilution Factor:	1.0000



No.	Ret.Time min	Peak Name	Height μS	Area $\mu\text{S}\cdot\text{min}$	Rel.Area %	Amount	Type
1	13.91	CLO4	0.021	0.009	100.00	9.692	BMB*
Total:			0.021	0.009	100.00	9.692	

5 autocal5**RAJA060913-5**

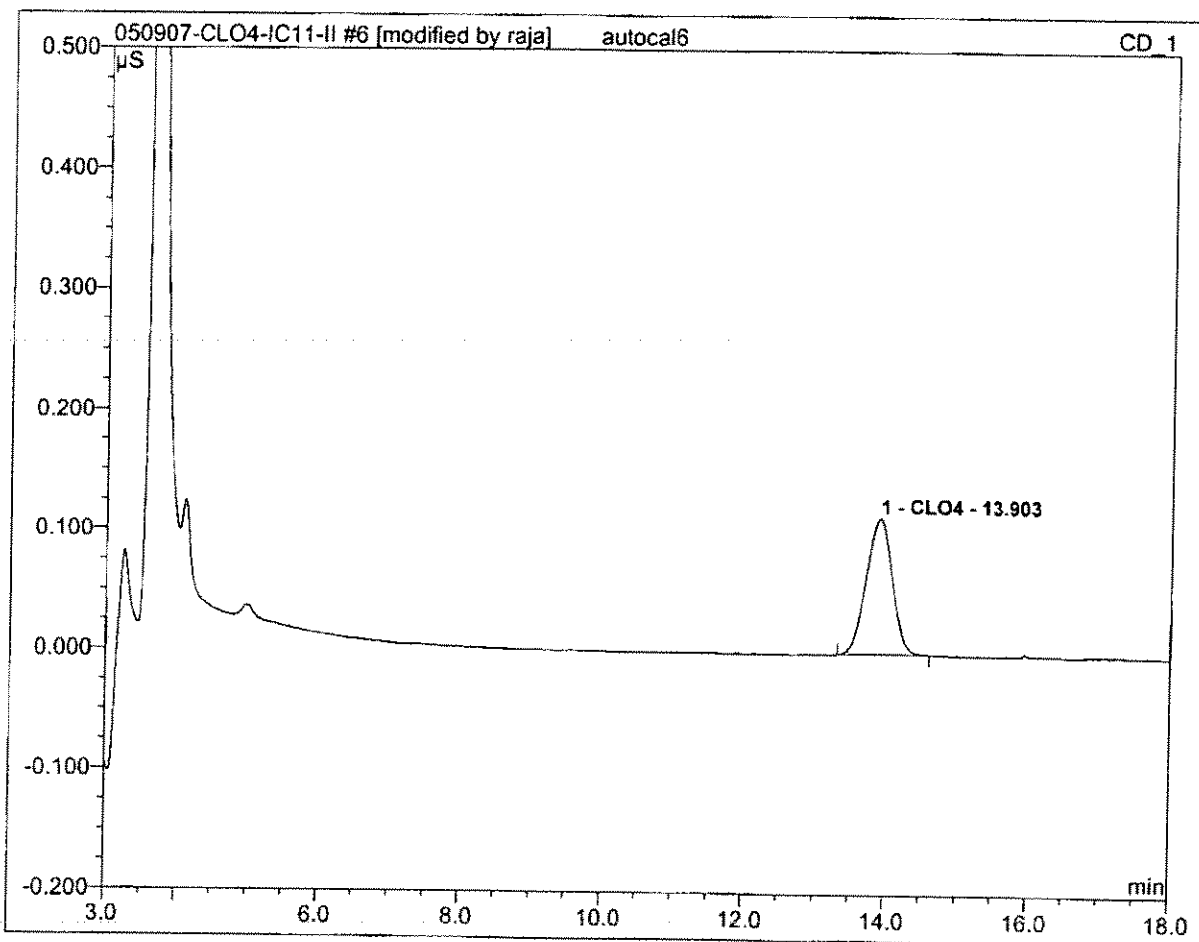
Sample Name:	autocal5	Channel:	CD_1
Sample Type:	standard	Control Program:	Perchlorate-IC11
Recording Time:	05/08/2007 11:16	Quantif. Method:	IC#4-CLO4-LOW
Analyst:	Raja	Dilution Factor:	1.0000



No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	13.90	CLO4	0.054	0.023	100.00	24.575	BMB*
Total:			0.054	0.023	100.00	24.575	

6 autocal6**RAJA060913-6**

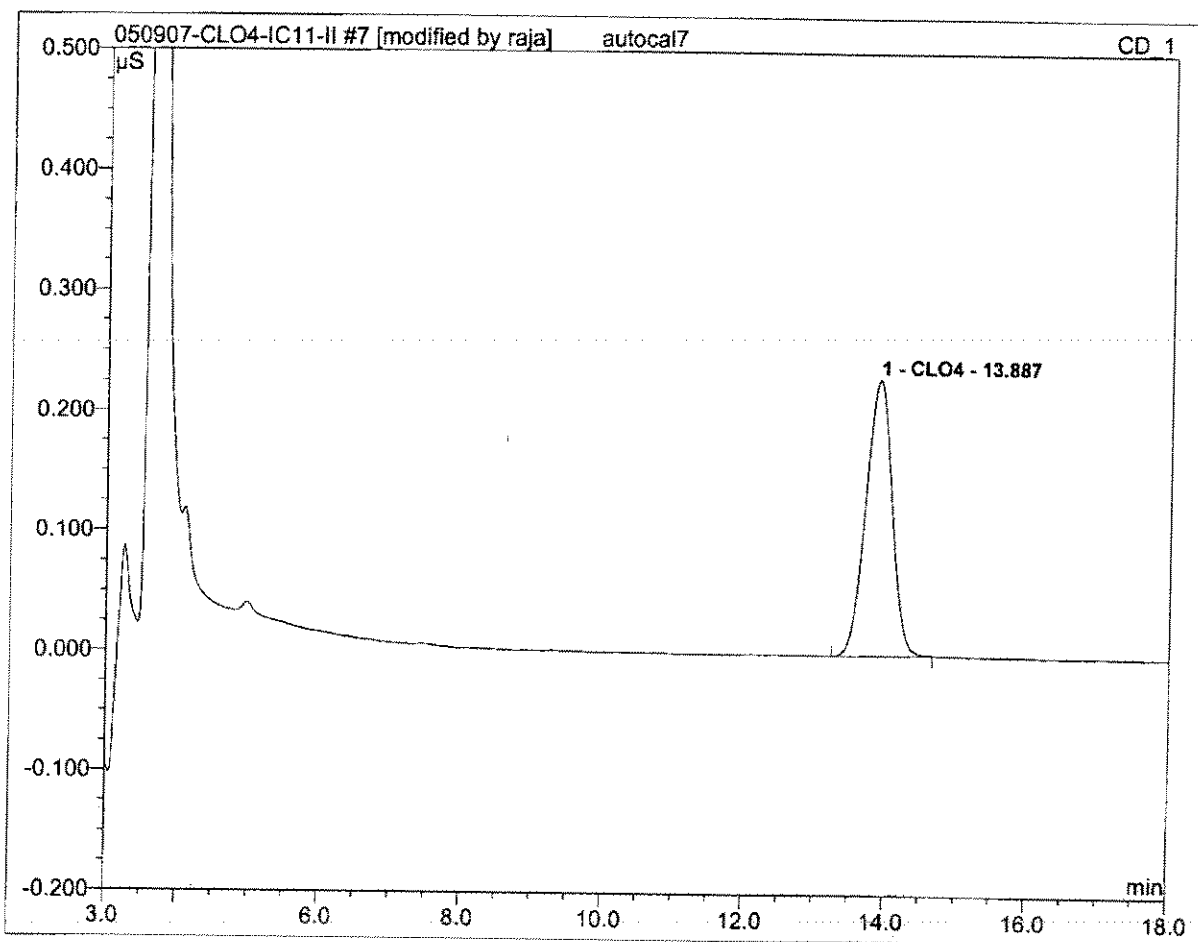
Sample Name:	autocal6	Channel:	CD_1
Sample Type:	standard	Control Program:	Perchlorate-IC11
Recording Time:	05/08/2007 11:38	Quantif. Method:	IC#4-CLO4-LOW
Analyst:	Raja	Dilution Factor:	1.0000



No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	13.90	CLO4	0.114	0.048	100.00	50.378	BMB*
Total:			0.114	0.048	100.00	50.378	

7 autocal7**RAJA060913-7**

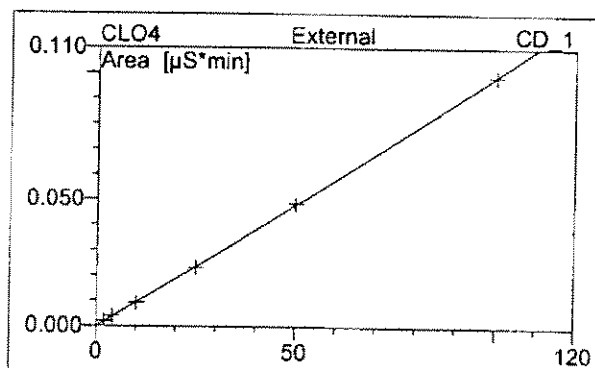
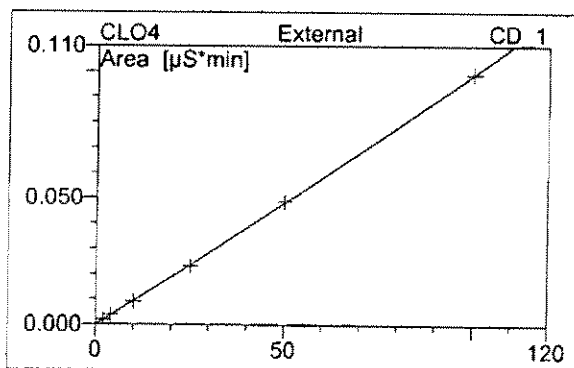
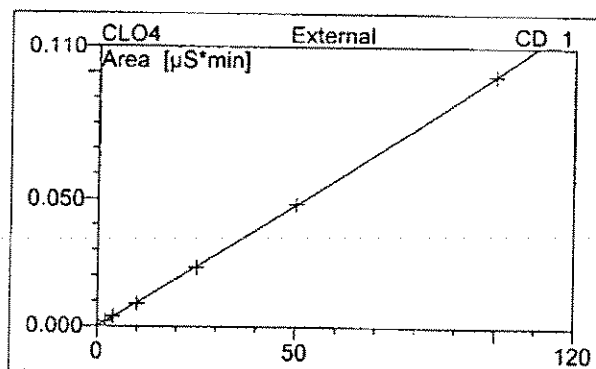
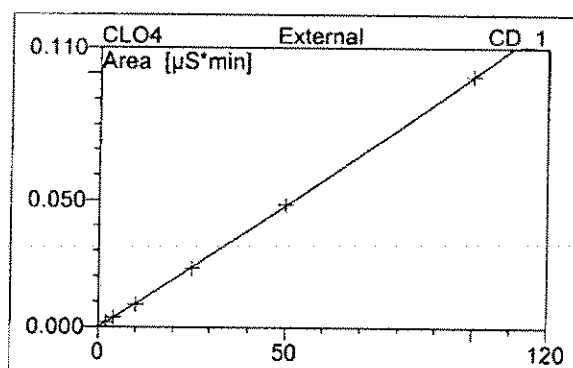
Sample Name:	autocal7	Channel:	CD_1
Sample Type:	standard	Control Program:	Perchlorate-IC11
Recording Time:	05/08/2007 12:01	Quantif. Method:	IC#4-CLO4-LOW
Analyst:	Raja	Dilution Factor:	1.0000



No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	13.89	CLO4	0.231	0.099	100.00	99.938	BMB*
Total:			0.231	0.099	100.00	99.938	

7 autocal7**RAJA060913-7**

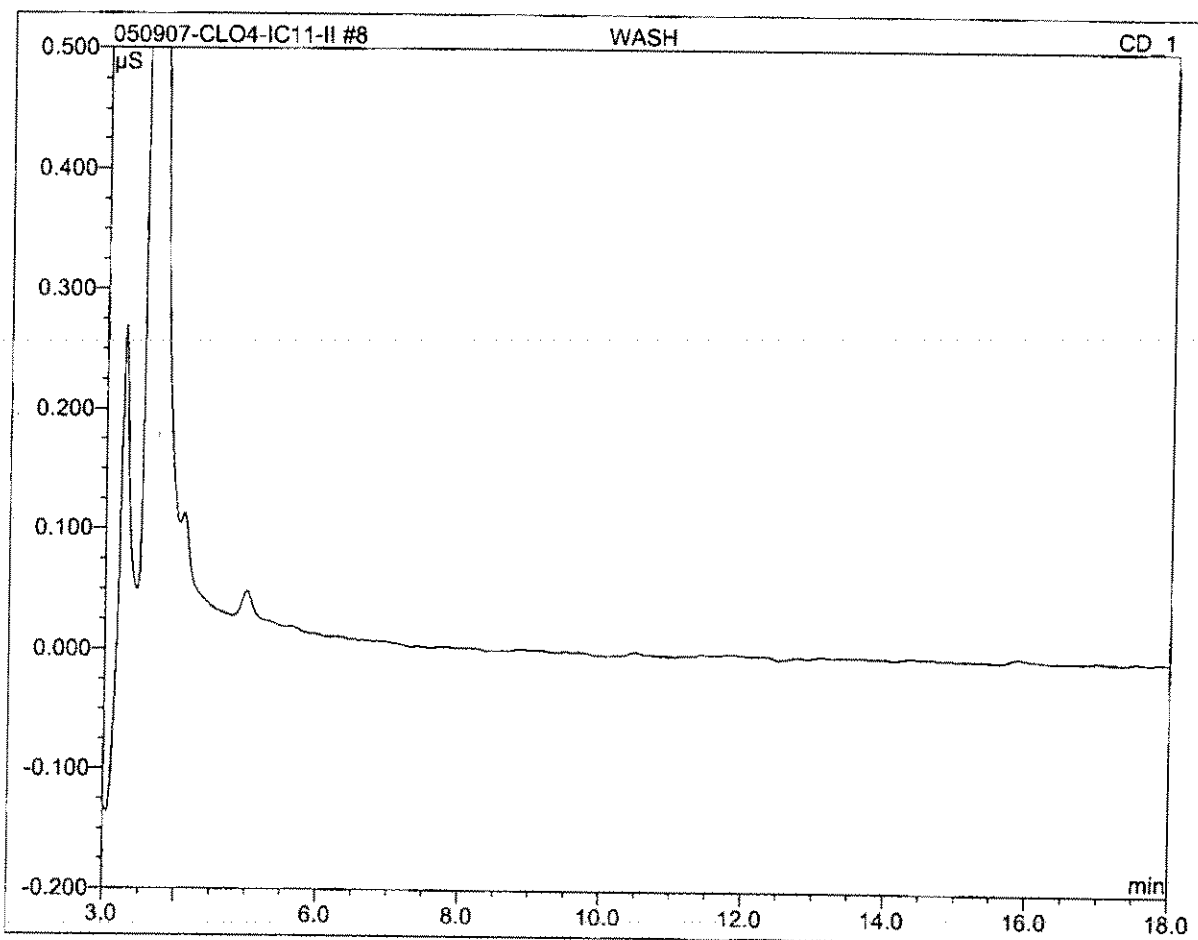
Sample Name:	autocal7	Injection Volume:	20.0
Vial Number:	109	Channel:	CD_1
Sample Type:	standard	Wavelength:	n.a.
Control Program:	Perchlorate-IC11	Bandwidth:	n.a.
Quantif. Method:	IC#4-CLO4-LOW	Dilution Factor:	1.0000
Recording Time:	5/8/2007 12:01	Sample Weight:	1.0000
Run Time (min):	20.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Cal.Type	Points	Corr.Coeff. %	Offset	Slope	Curve
1	13.89	CLO4	0QOff	6	99.9845	-0.0001	0.0009	0.0000
Average:					99.9845	-0.0001	0.0009	0.0000

8 WASH

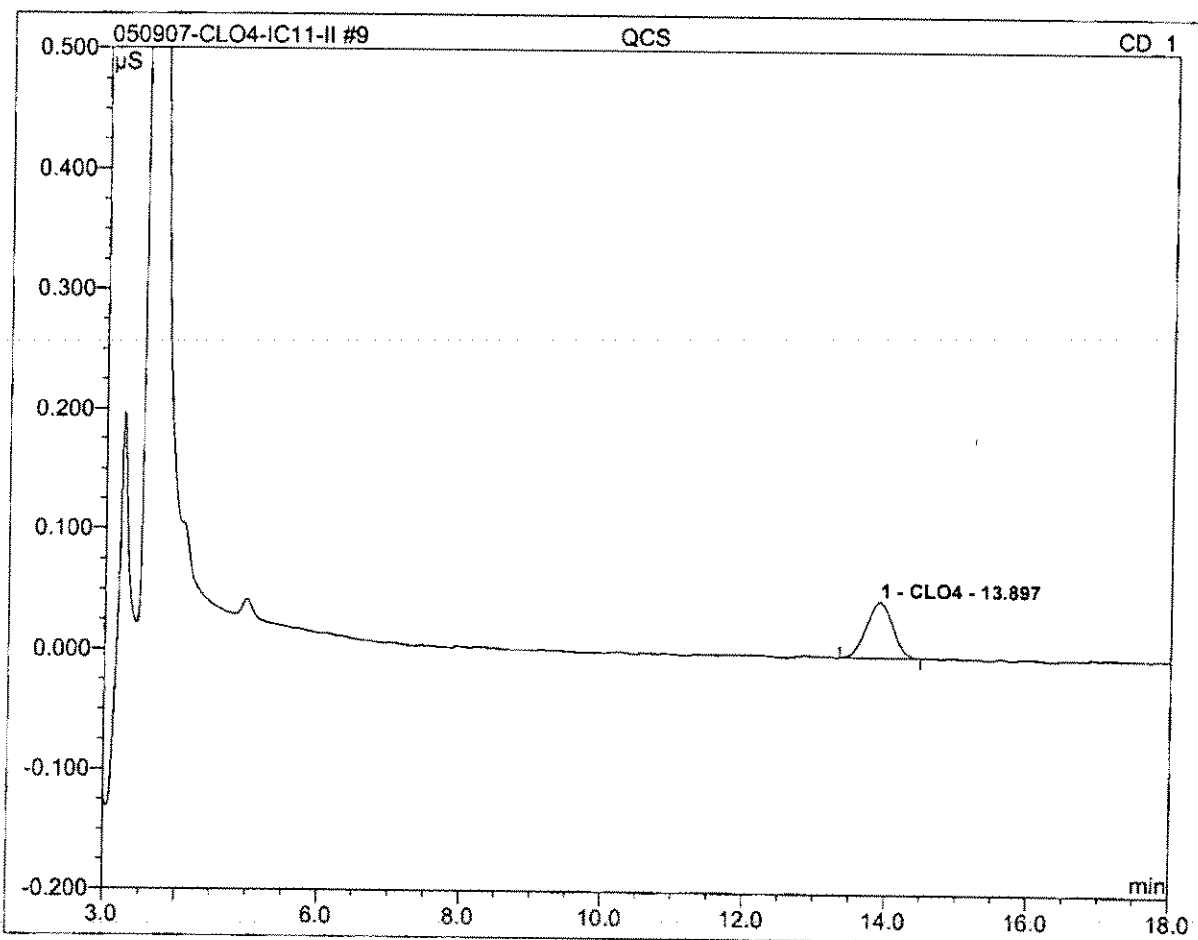
Sample Name:	WASH	Channel:	CD_1
Sample Type:	unknown	Control Program:	Perchlorate-IC11
Recording Time:	05/09/2007 12:17	Quantif. Method:	IC#4-CLO4-LOW
Analyst:	Raja	Dilution Factor:	1.0000



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
Total:			0.000	0.000	0.00	0.000	

9 QCS

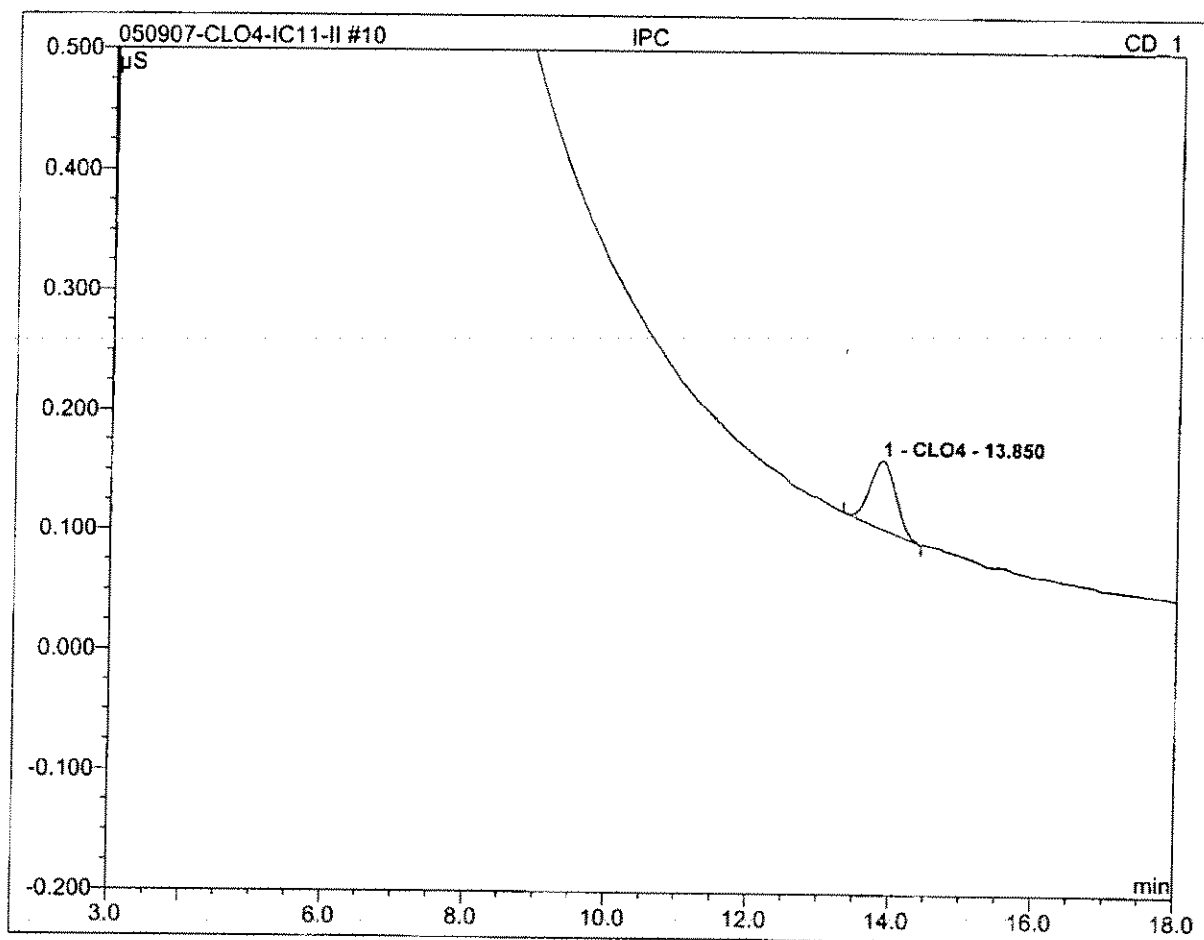
Sample Name:	QCS	Channel:	CD_1
Sample Type:	unknown	Control Program:	Perchlorate-IC11
Recording Time:	05/09/2007 12:40	Quantif. Method:	IC#4-CLO4-LOW
Analyst:	Raja	Dilution Factor:	1.0000



No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	13.90	CLO4	0.046	0.020	100.00	21.081	BMB
Total:			0.046	0.020	100.00	21.081	

10 IPC

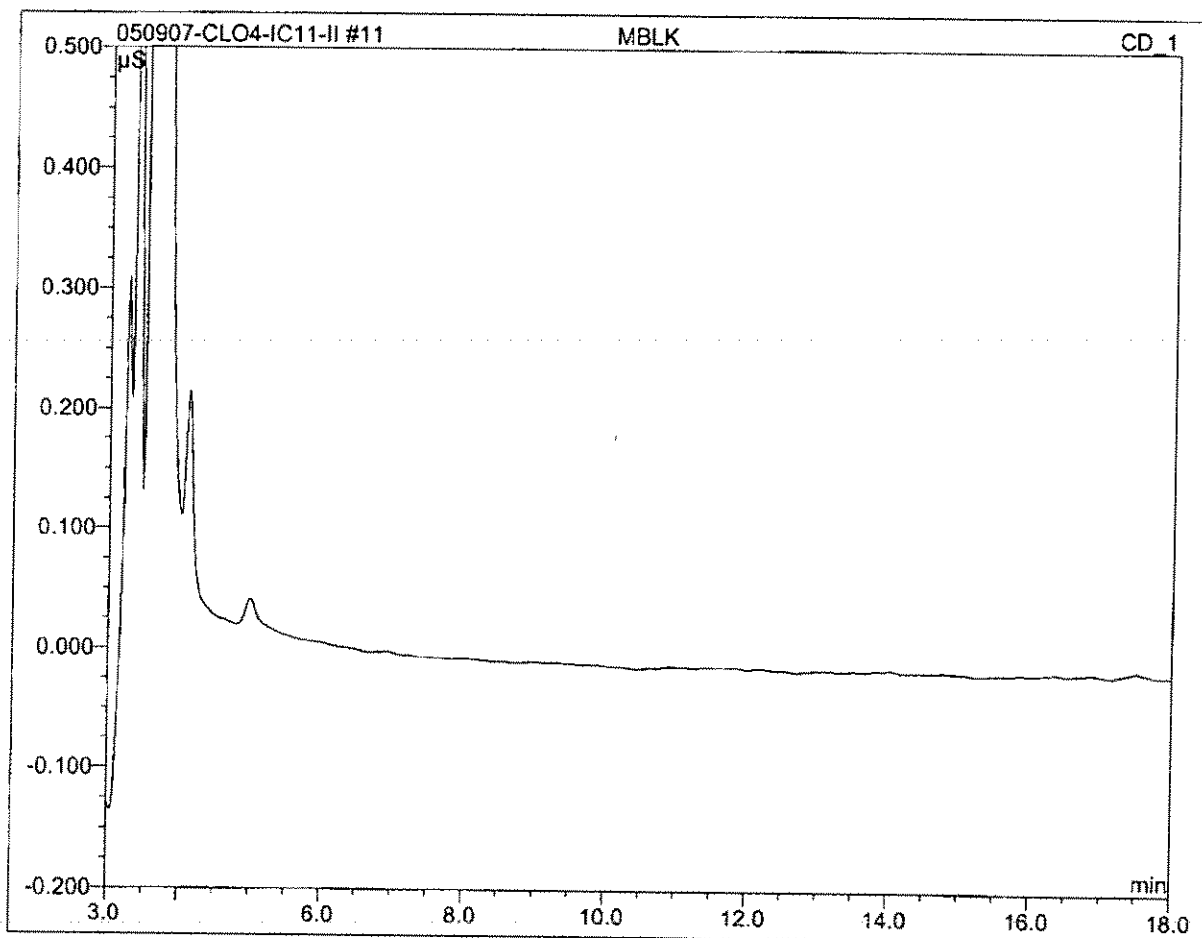
Sample Name:	IPC	Channel:	CD_1
Sample Type:	unknown	Control Program:	Perchlorate-IC11
Recording Time:	05/09/2007 13:02	Quantif. Method:	IC#4-CLO4-LOW
Analyst:	Raja	Dilution Factor:	1.0000



No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	13.85	CLO4	0.057	0.024	100.00	25.504	BMB
Total:			0.057	0.024	100.00	25.504	

11 MBLK

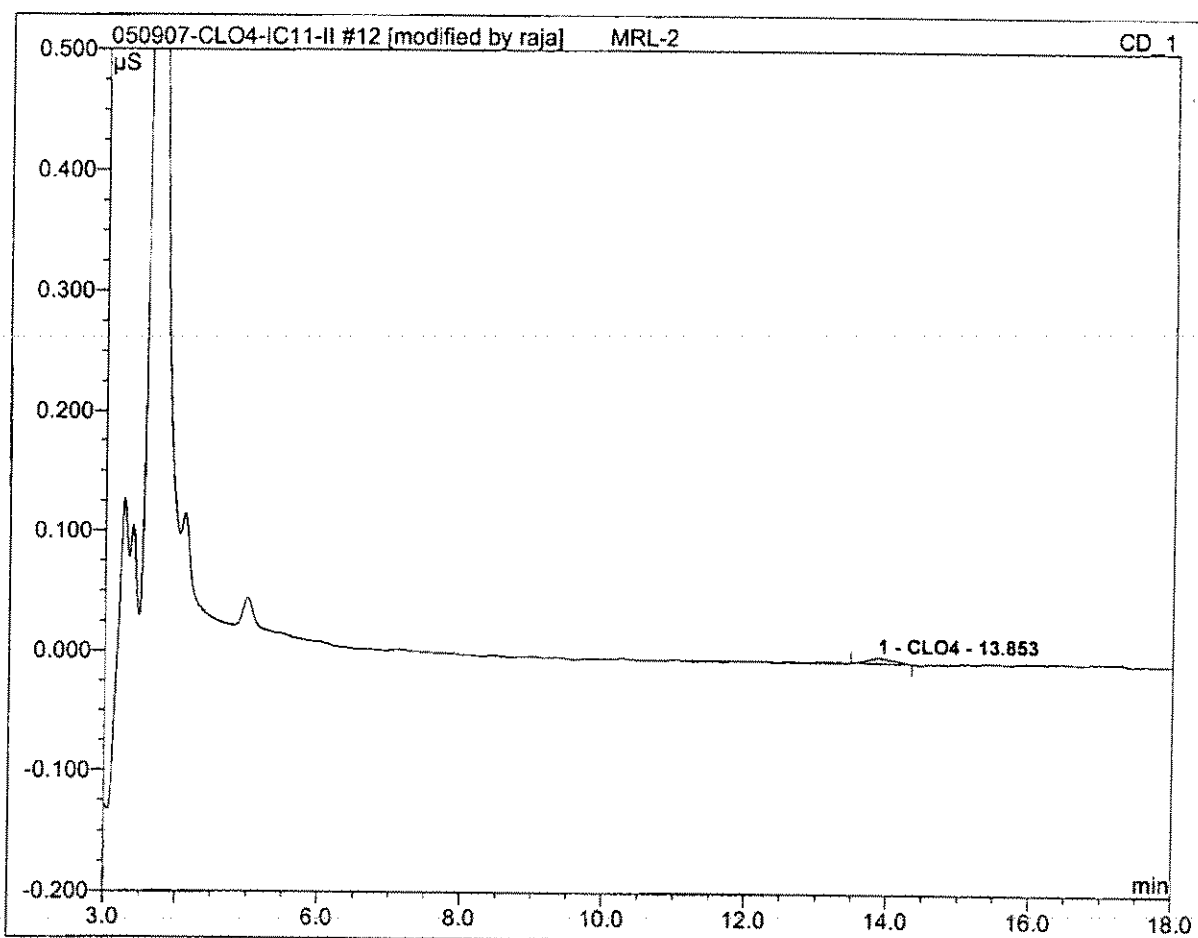
Sample Name:	MBLK	Channel:	CD_1
Sample Type:	unknown	Control Program:	Perchlorate-IC11
Recording Time:	05/09/2007 13:25	Quantif. Method:	IC#4-CLO4-LOW
Analyst:	Raja	Dilution Factor:	1.0000



No.	Ret. Time min	Peak Name	Height µS	Area µS*min	Rel. Area %	Amount	Type
Total:			0.000	0.000	0.00	0.000	

12 MRL-2

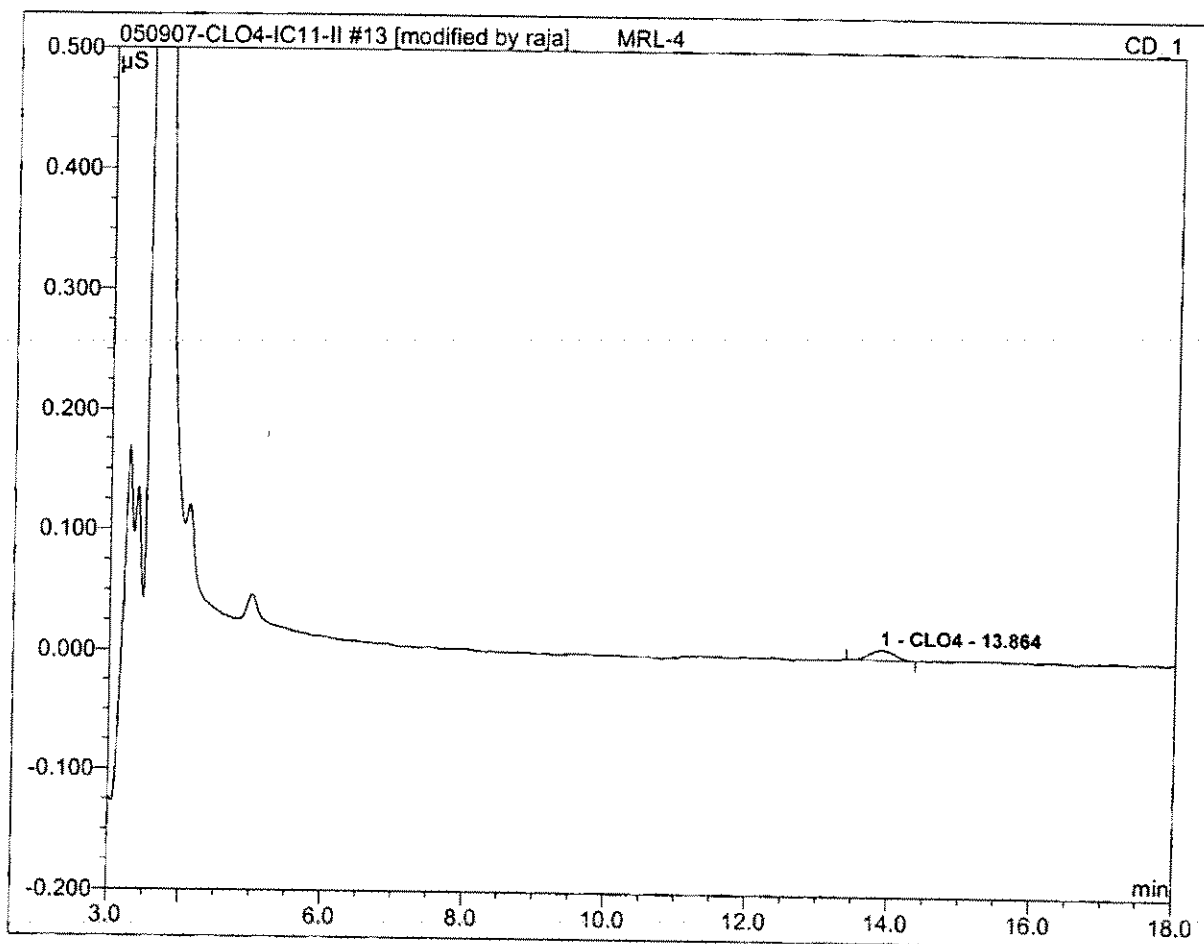
Sample Name:	MRL-2	Channel:	CD_1
Sample Type:	unknown	Control Program:	Perchlorate-IC11
Recording Time:	05/09/2007 13:47	Quantif. Method:	IC#4-CLO4-LOW
Analyst:	Raja	Dilution Factor:	1.0000



No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	13.85	CLO4	0.005	0.002	100.00	2.308	BMB*
Total:			0.005	0.002	100.00	2.308	

13 MRL-4

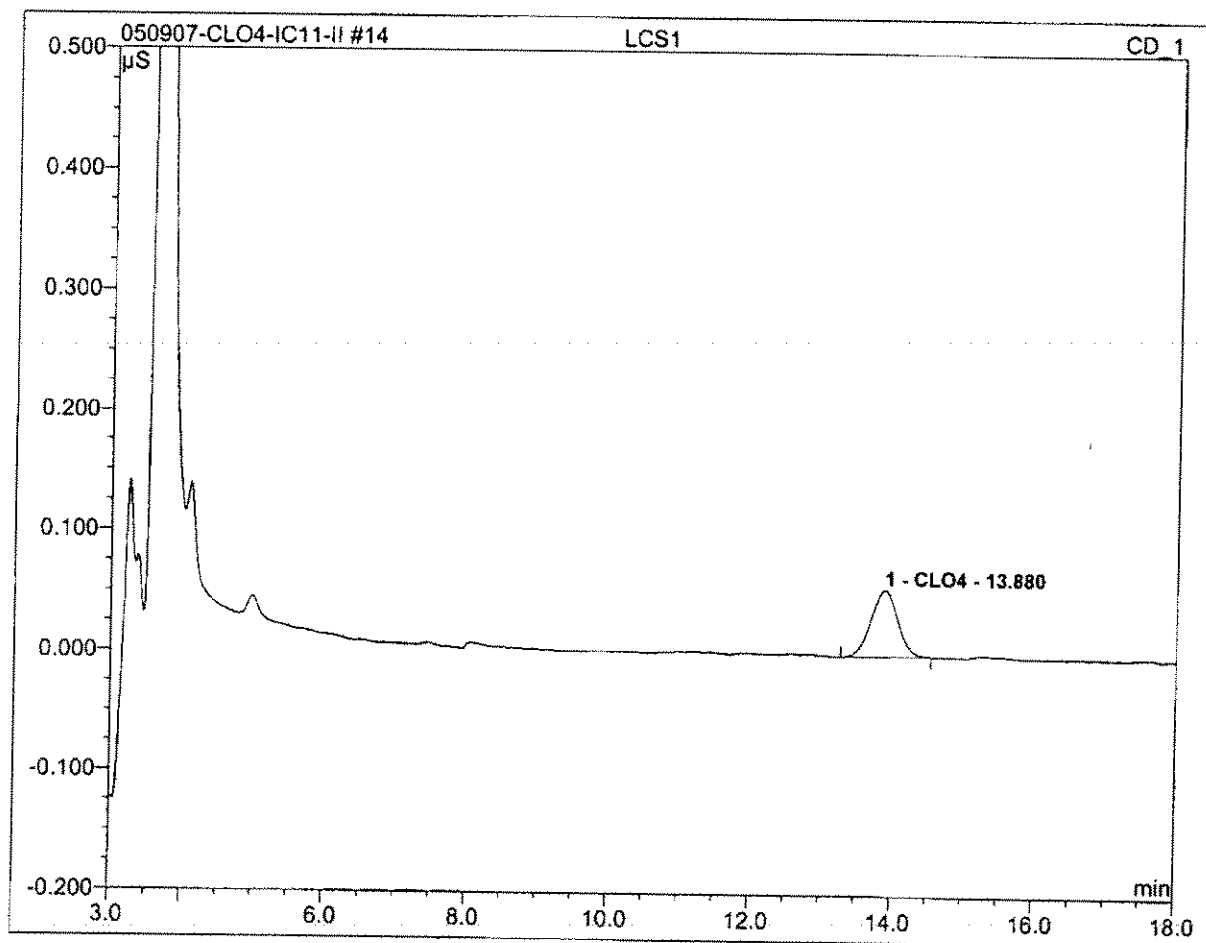
Sample Name:	MRL-4	Channel:	CD_1
Sample Type:	unknown	Control Program:	Perchlorate-IC11
Recording Time:	05/09/2007 14:10	Quantif. Method:	IC#4-CLO4-LOW
Analyst:	Raja	Dilution Factor:	1.0000



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	13.86	CLO4	0.008	0.003	100.00	3.759	BMB*
Total:			0.008	0.003	100.00	3.759	

14 LCS1

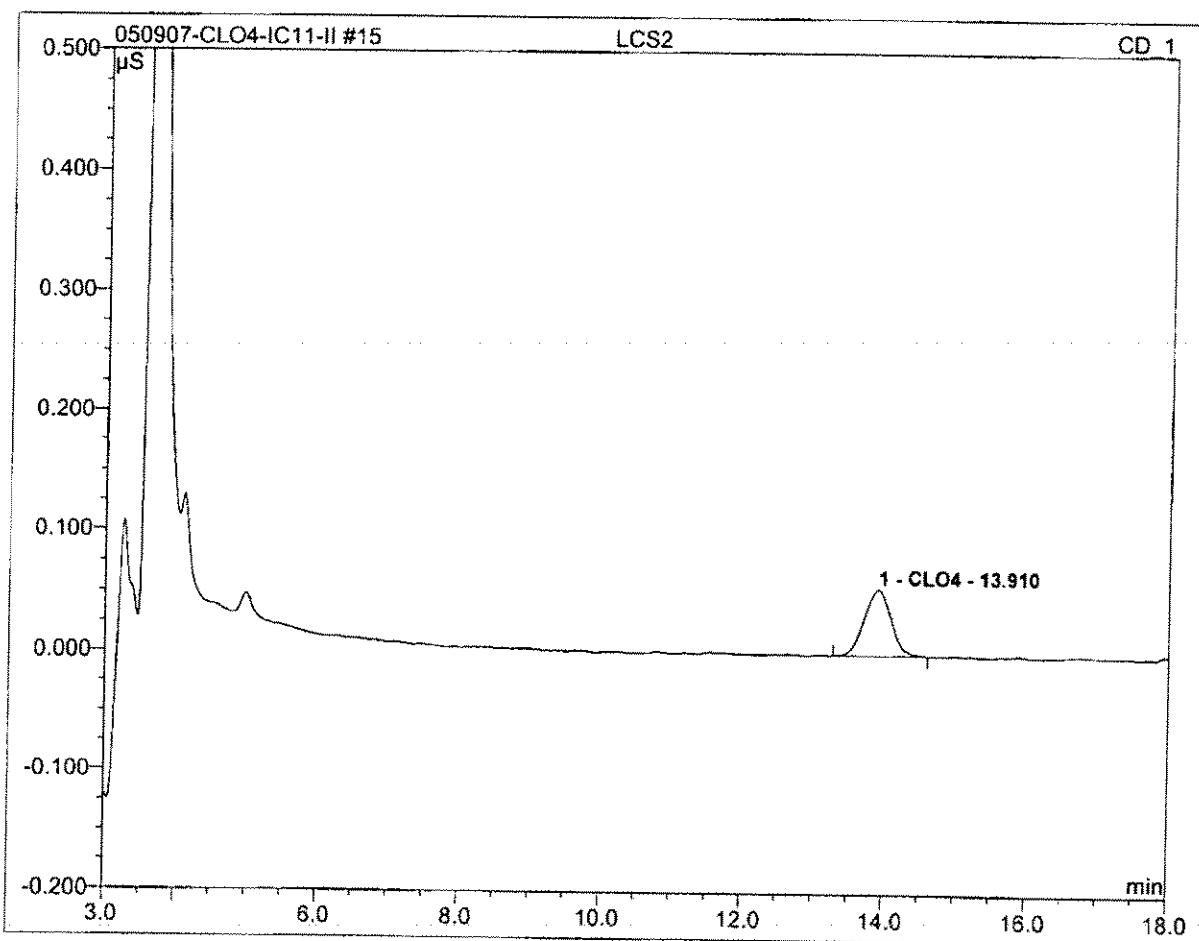
Sample Name:	LCS1	Channel:	CD_1
Sample Type:	unknown	Control Program:	Perchlorate-IC11
Recording Time:	05/09/2007 14:32	Quantif. Method:	IC#4-CLO4-LOW
Analyst:	Raja	Dilution Factor:	1.0000



No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	13.88	CLO4	0.055	0.025	100.00	26.021	BMB
Total:			0.055	0.025	100.00	26.021	

15 LCS2

Sample Name:	LCS2	Channel:	CD_1
Sample Type:	unknown	Control Program:	Perchlorate-IC11
Recording Time:	05/09/2007 14:55	Quantif. Method:	IC#4-CLO4-LOW
Analyst:	Raja	Dilution Factor:	1.0000

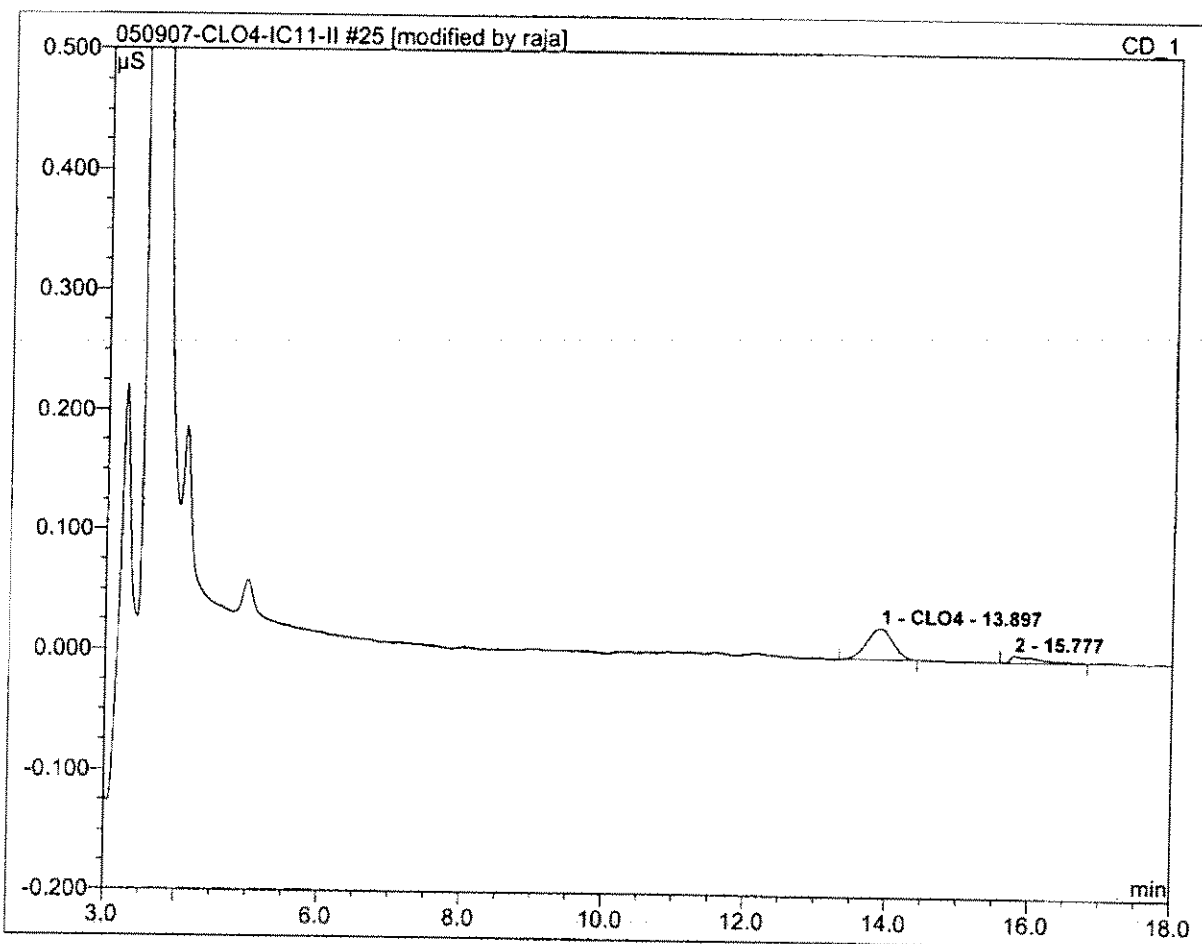


No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	13.91	CLO4	0.055	0.024	100.00	25.786	BMB
Total:			0.055	0.024	100.00	25.786	

25 2705020855_1/50000

Sample Name: 2705020855_1/50000
Sample Type: unknown
Recording Time: 05/09/2007 18:37
Analyst: Raja

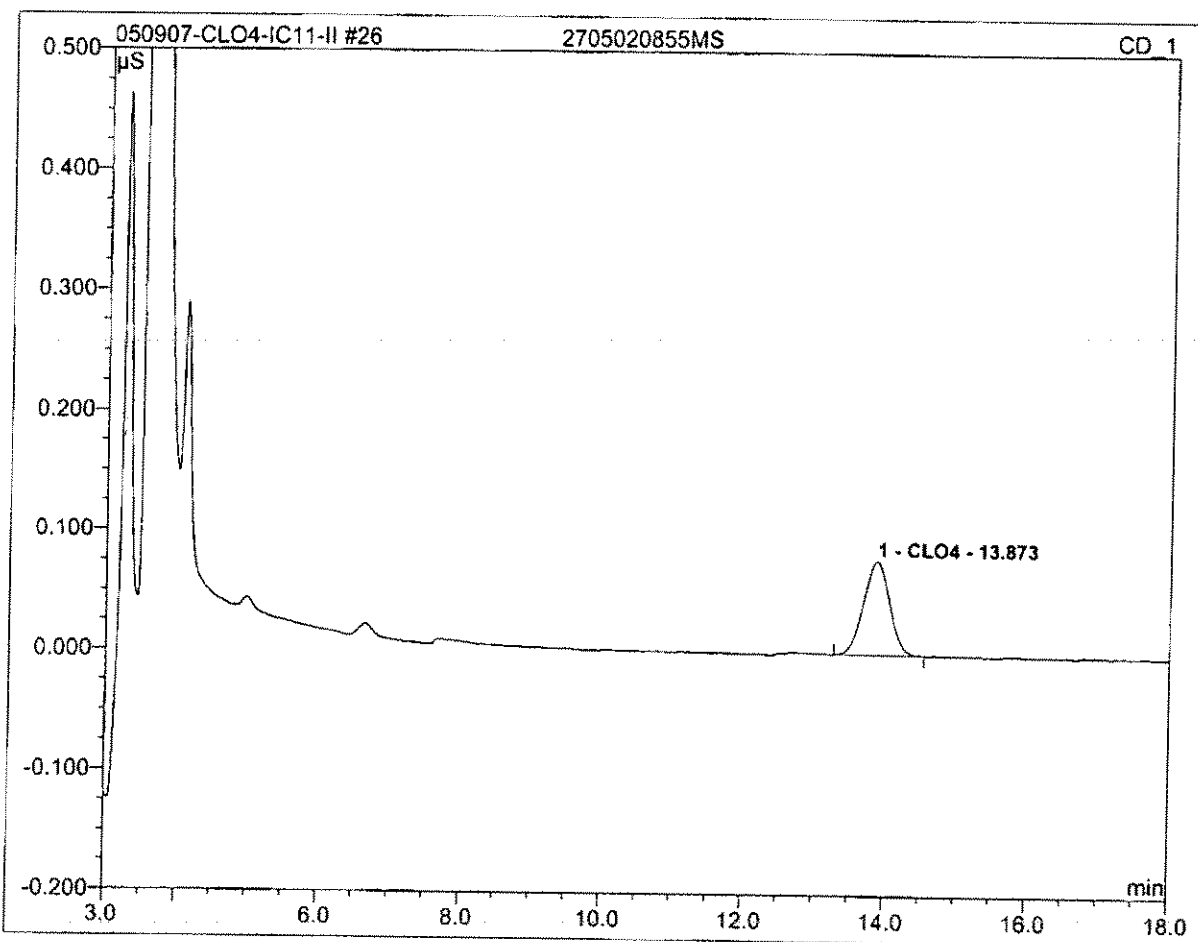
Channel: CD_1
Control Program: Perchlorate-IC11
Quantif. Method: IC#4-CLO4-LOW
Dilution Factor: 50000.0000



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	13.90	CLO4	0.025	0.011	81.41	578229.853	BMB*
Total:			0.025	0.011	81.41	578229.853	

26 2705020855MS

Sample Name:	2705020855MS	Channel:	CD_1
Sample Type:	unknown	Control Program:	Perchlorate-IC11
Recording Time:	05/09/2007 19:00	Quantif. Method:	IC#4-CLO4-LOW
Analyst:	Raja	Dilution Factor:	1.0000

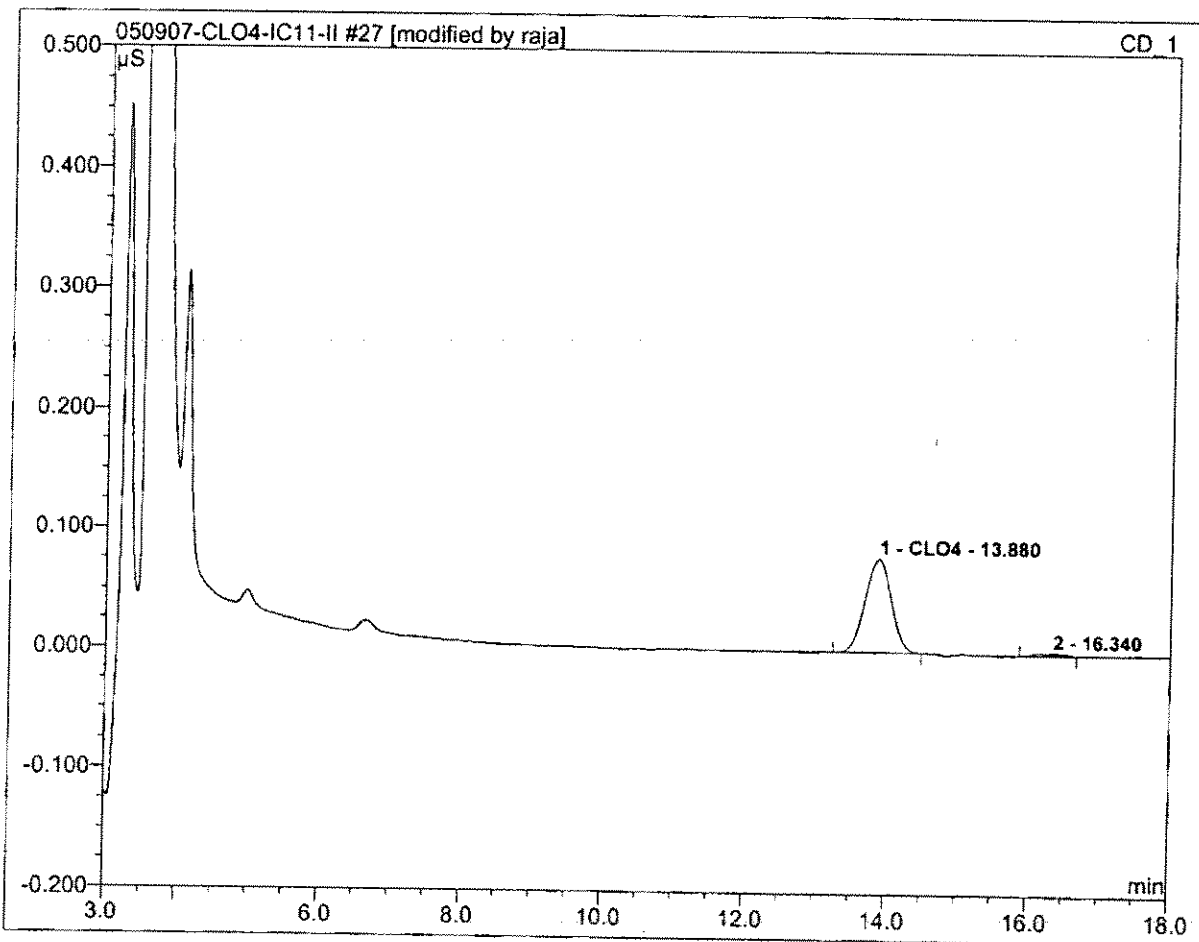


No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	13.87	CLO4	0.078	0.033	100.00	35.271	BMB
Total:			0.078	0.033	100.00	35.271	

27 2705020855MSD

Sample Name: 2705020855MSD
Sample Type: unknown
Recording Time: 05/09/2007 19:22
Analyst: Raja

Channel: CD_1
Control Program: Perchlorate-IC11
Quantif. Method: IC#4-CLO4-LOW
Dilution Factor: 1.0000

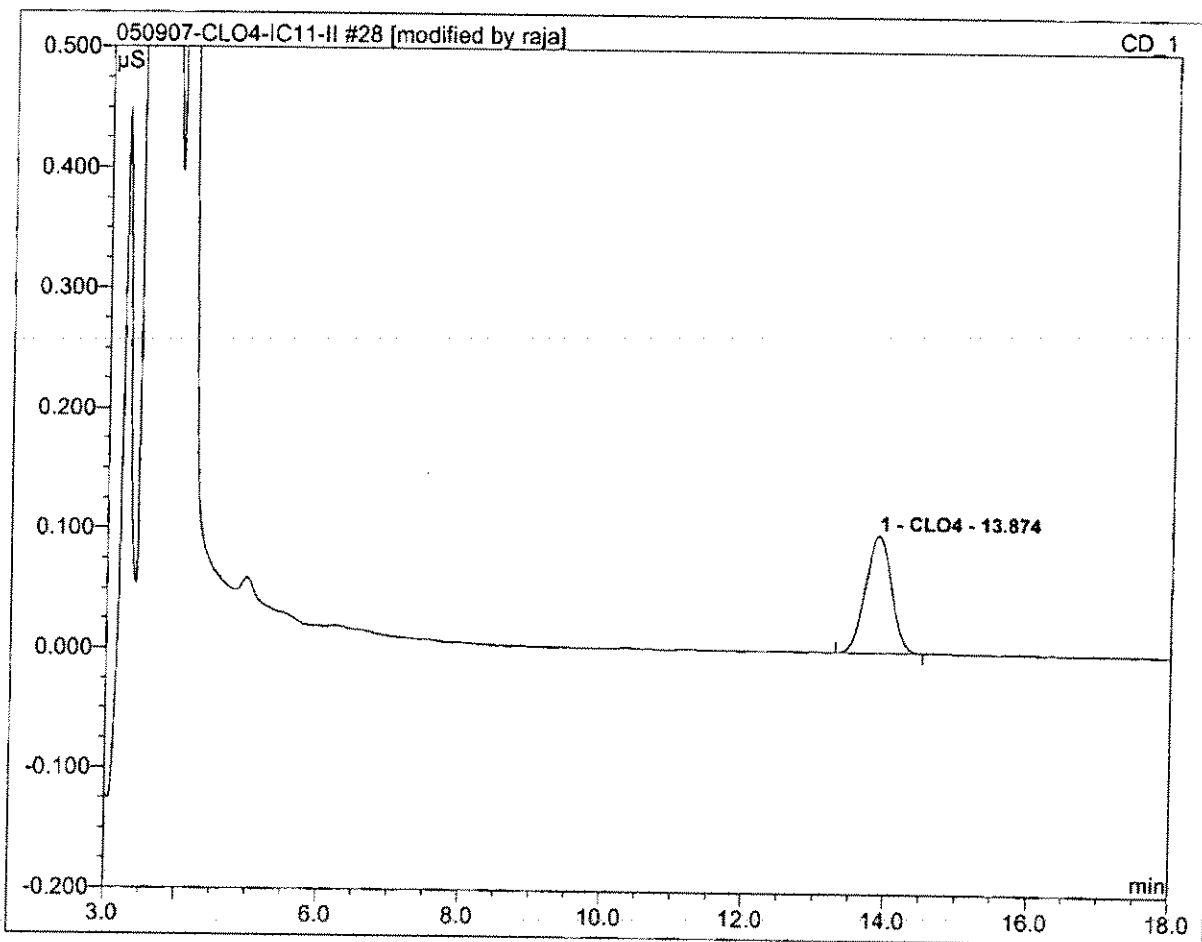


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	13.88	CLO4	0.078	0.034	96.83	35.352	BMB*
Total:			0.078	0.034	96.83	35.352	

28 2705020863_1/500

Sample Name: 2705020863_1/500
Sample Type: unknown
Recording Time: 05/09/2007 19:44
Analyst: Raja

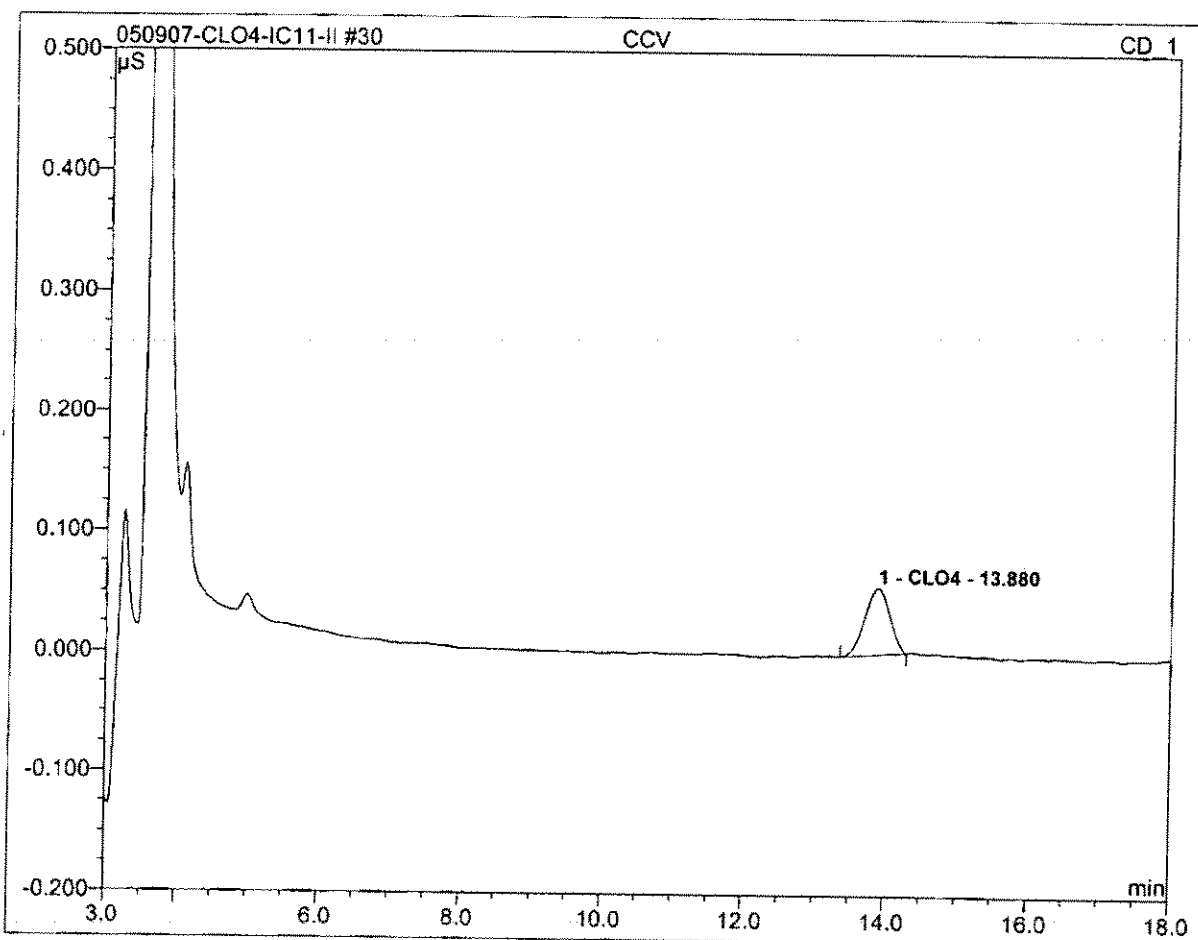
Channel: CD_1
Control Program: Perchlorate-IC11
Quantif. Method: IC#4-CLO4-LOW
Dilution Factor: 500.0000



No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	13.87	CLO4	0.098	0.042	100.00	21758.652	BMB*
Total:			0.098	0.042	100.00	21758.652	

30 CCV

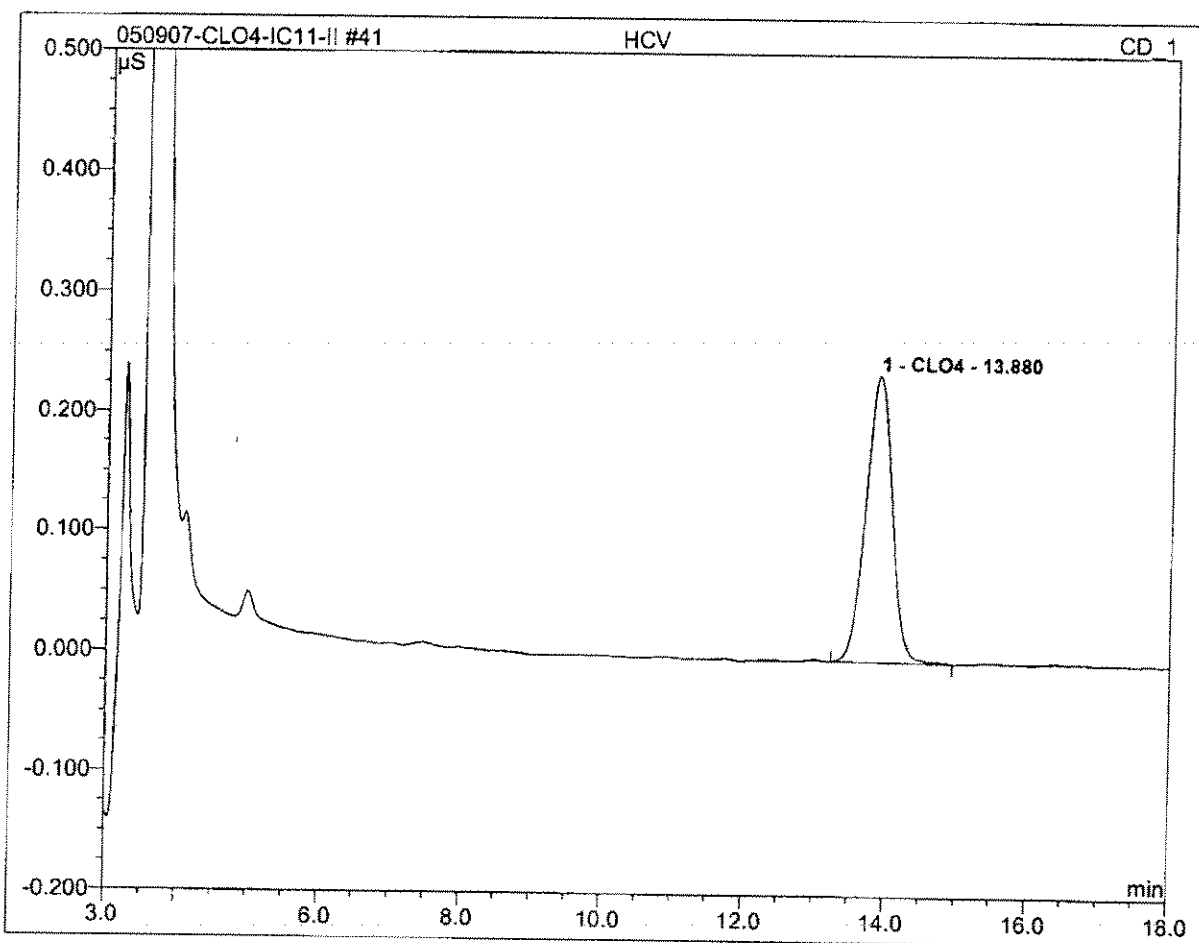
Sample Name:	CCV	Channel:	CD_1
Sample Type:	unknown	Control Program:	Perchlorate-IC11
Recording Time:	05/09/2007 20:29	Quantif. Method:	IC#4-CLO4-LOW
Analyst:	Raja	Dilution Factor:	1.0000



No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	13.88	CLO4	0.056	0.023	100.00	24.008	BMB
Total:			0.056	0.023	100.00	24.008	

41 HCV

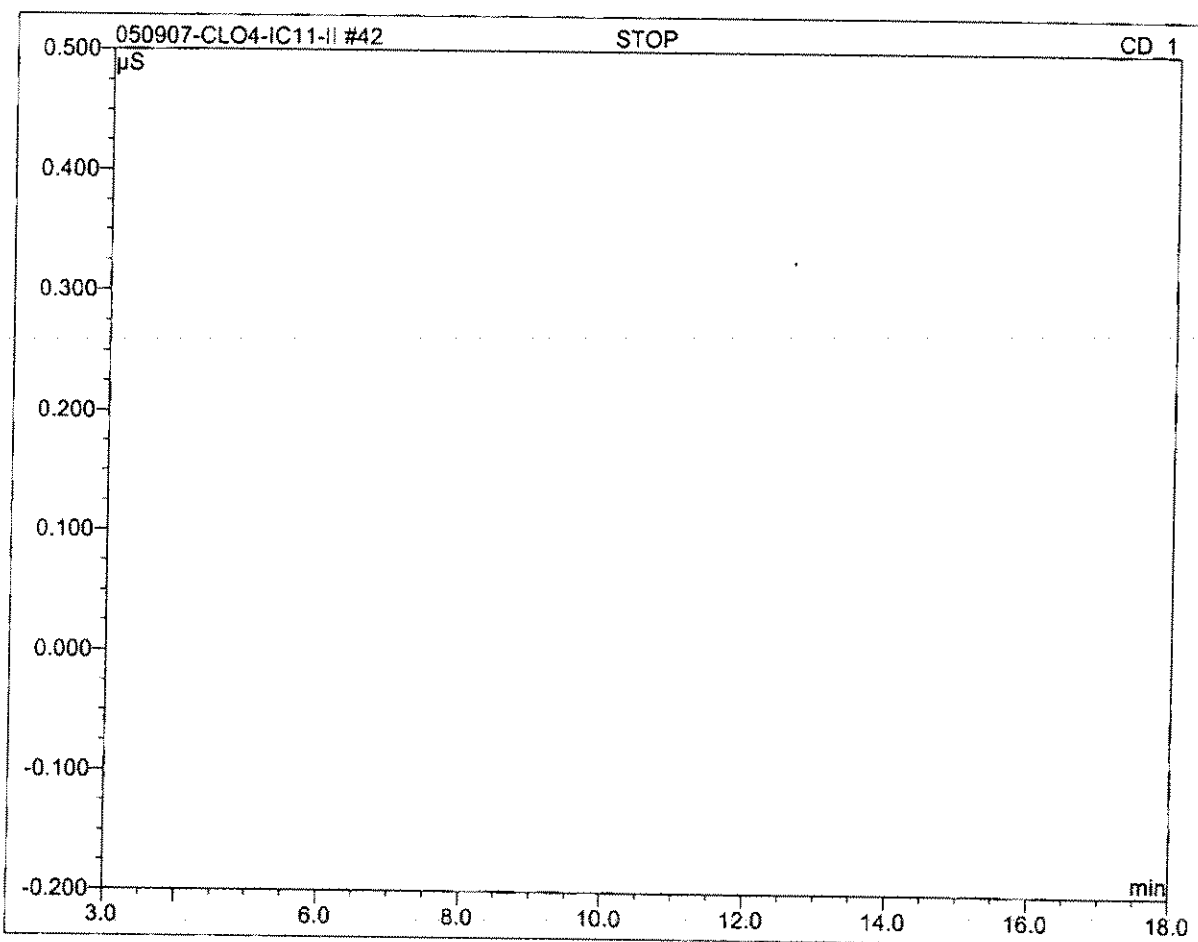
Sample Name:	HCV	Channel:	CD_1
Sample Type:	unknown	Control Program:	Perchlorate-IC11
Recording Time:	05/10/2007 00:35	Quantif. Method:	IC#4-CLO4-LOW
Analyst:	Raja	Dilution Factor:	1.0000



No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	13.88	CLO4	0.239	0.103	100.00	103.806	BMB
Total:			0.239	0.103	100.00	103.806	

42 STOP

Sample Name:	STOP	Channel:	CD_1
Sample Type:	unknown	Control Program:	IC11 Stop
Recording Time:	05/10/2007 00:58	Quantif. Method:	IC#4-CLO4-LOW
Analyst:	Raja	Dilution Factor:	1.0000



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
Total:			0.000	0.000	0.00	0.000	

Perchlorate QC Checklist

rev: 27 Mar 03

Analysis Date: 5-09-07 Analyst: Pajr

QC'd by W Date 16 May 07

Instrument: LC8

Calculated MCT Level: 876 umhos/cm

Original IPC conductance: 876 umhos/cm

Daily IPC conductance: 871 umhos/cm

Calibration including QCS

✓ QCS (20ppb) recovery is within 90% - 110% (18-22ppb) to verify that the calibration curve (minimum 5 points) still holds.

✓ Calibration curve is reanalyzed if QCS fails. Correlation Coefficient is 0.995 or better.

Initial QC Check Samples (MBLANK, MRL, ICCSCV, IPC) to be analyzed with every batch (up to 20 samples) or part thereof

✓ MBLANK is analyzed before samples. Perchlorate, if present, is < or = half of the MRL.

N/A L-CIO4 only: ICCSCV at 2ppb is within 50%-150% (1-3ppb)

✓ CIO4 only: MRL at 4ppb is within 75%-125% (3-5ppb)

✓ IPC (25ppb) recovery is between 80%-120% (20-30ppb)

✓ IPC retention time is within 5% of the retention time of the standards

✓ IPC Conductance level is within 10% of the original

PDA/H = 167
18.2%
16 May 07

LCS/LCSD (25ppb)

✓ Recoveries are between 90%-110% (22.5 - 27.5ppb)

✓ One pair is analyzed per batch (up to 20 samples) or part thereof

MS/MSD (25ppb) NOTE: For UCMR, MS/MSD concentrations alternate between 4ppb and 25ppb

✓ Recoveries are within 80%-120% (20-30ppb) for 25ppb spike N/A (3.2-4.8ppb) for 4ppb spike

✓ One pair is analyzed per batch (up to 20 samples) or part thereof

✓ RPD between MS and MSD is within 15%.

Continuing Calibration Verification (MCV, HCV) NOTE: For UCMR ECV and MCV are required

✓ Verification Checks alternate between mid- and high-level during the analysis (low- and mid-level for UCMR)

✓ MCV (25ppb) recovery is between 85%-115% (21.25 - 28.75ppb)

✓ HCV (100ppb) recovery is between 85%-115% (85-115ppb) N/A ECV (4ppb) recovery is between 75%-125% (3.0-5.0)

Pretreat and include the following QC parameters for any batch or part thereof containing samples requiring pretreatment

N/A One Laboratory Reagent Blank (LRB). Perchlorate is < or = half of MRL.

N/A One pair of Laboratory Control Samples (LCS/LCSD). Recovery of perchlorate is between 85%-115%.

N/A One Pair of Laboratory Fortified Matrices (MS/MSD). Recoveries are between 80%-120%

Samples

✓ All samples are analyzed within 28 days of collection.

✓ All samples are analyzed within MCT Conductance limit.

QIR

N/A QIR needed for failed QC

N/A QIR needed for samples analyzed outside of hold time

VB: NM5/11/07

Sample No.	Sample Name	Dil.Fac.	Comment	Time	Amount ug/L Perchlorate ECD_1
1	WASH	1.0		05.08.07 10:16	n.a.
2	CAL1	1.0		05.08.07 10:37	n.a.
3	CAL2	1.0	RAJA060913-2	05.08.07 10:58	2.2019
4	CAL3	1.0	RAJA060913-3	05.08.07 11:20	3.7695
5	CAL4	1.0	RAJA060913-4	05.08.07 11:41	9.4266
6	CAL5	1.0	RAJA060913-5	05.08.07 12:03	24.8295
7	CAL6	1.0	RAJA060913-6	05.08.07 12:24	50.3275
8	CAL7	1.0	RAJA060913-7	05.08.07 12:46	99.9400
9	WASH	1.0		05.09.07 13:37	n.a.
10	QCS	1.0		05.09.07 13:59	20.9160
11	IPC	1.0		05.09.07 14:20	24.3975
12	MBLK	1.0		05.09.07 14:41	✓ n.a.
13	MRL-2	1.0		05.09.07 15:03	1.8247
14	MRL-4	1.0		05.09.07 15:24	✓ 3.6759
15	LCS1	1.0		05.09.07 15:45	✓ 24.0180
16	LCS2	1.0		05.09.07 16:07	✓ 24.4695
17	2705020848_1/50000	50000.0		05.09.07 16:28	✓ 980595.8938
18	2705020848MS	1.0		05.09.07 16:50	✓ 43.1510
19	2705020848MSD	1.0		05.09.07 17:11	✓ 42.7821
20	2705020853_1/50000	50000.0		05.09.07 17:32	✓ 304907.4504
21	2705070463_1/5	5.0		05.09.07 17:54	✓ n.a.
22	2705070465_1/10	10.0		05.09.07 18:15	✓ n.a.
23	2705030363_1/2	2.0		05.09.07 18:36	✓ n.a.
24	2705030175_1/50000	50000.0		05.09.07 18:58	✓ 1399445.1203
25	2705030177_1/5000	5000.0		05.09.07 19:19	✓ 168461.3809
26	2705030178_1/50000	50000.0		05.09.07 19:40	✓ 720458.2850
27	2705030179_1/50000	50000.0		05.09.07 20:02	✓ 776494.9347
28	2705030182_1/10000	10000.0		05.09.07 20:23	✓ 402558.2609
29	CCV	1.0		05.09.07 20:45	24.4311
30	2705030184_1/10000-DNR	10000.0		05.09.07 21:06	28034.5608
31	2705030203_1/50000	50000.0		05.09.07 21:27	✓ 1665157.5368
32	2705030204_1/50000	50000.0		05.09.07 21:49	✓ 407621.8854
33	2705030205_1/50000	50000.0		05.09.07 22:11	✓ 759685.8936
34	2705030208_1/10000	10000.0		05.09.07 22:33	✓ 489103.4693
35	2705030218_1/10000	10000.0		05.09.07 22:54	✓ 323571.0838
36	2705040114_1/50000	50000.0		05.09.07 23:16	✓ 3357360.0738
37	2705040305_1/50000	50000.0		05.09.07 23:37	✓ 1806353.1519
38	2705040306_1/50000	50000.0		05.09.07 23:59	✓ 1292993.9372
39	2705040307_1/50000	50000.0		05.10.07 00:20	✓ 925692.7313
40	HCV	1.0		05.10.07 00:42	97.3295
41	STOP	1.0		05.10.07 01:03	n.a.

Sequence: 050907-CLO4-IC2000-RAJA
Operator: raja

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Printed: 5/11/2007 4:41:01 PM

Title: 0210A
Datasource: D7LW3831_local
Location: ICS-2000\CLO4-2007-MAY
Timebase: ICS-2000
#Samples: 41

Created: 5/9/2007 11:27:23 AM by raja
Last Update: 5/11/2007 4:40:48 PM by raja

No.	Name	Comment	Dil. Factor	Type	Program	Method
1	WASH		1.0000	Unknown	PerchlorateDX2	PerchlorateDX2
2	CAL1		1.0000	Standard	PerchlorateDX2	PerchlorateDX2
3	CAL2	RAJA060913-2	1.0000	Standard	PerchlorateDX2	PerchlorateDX2
4	CAL3	RAJA060913-3	1.0000	Standard	PerchlorateDX2	PerchlorateDX2
5	CAL4	RAJA060913-4	1.0000	Standard	PerchlorateDX2	PerchlorateDX2
6	CAL5	RAJA060913-5	1.0000	Standard	PerchlorateDX2	PerchlorateDX2
7	CAL6	RAJA060913-6	1.0000	Standard	PerchlorateDX2	PerchlorateDX2
8	CAL7	RAJA060913-7	1.0000	Standard	PerchlorateDX2	PerchlorateDX2
9	WASH		1.0000	Unknown	PerchlorateDX2	PerchlorateDX2
10	QCS		1.0000	Unknown	PerchlorateDX2	PerchlorateDX2
11	IPC		1.0000	Unknown	PerchlorateDX2	PerchlorateDX2
12	MBLK		1.0000	Unknown	PerchlorateDX2	PerchlorateDX2
13	MRL-2		1.0000	Unknown	PerchlorateDX2	PerchlorateDX2
14	MRL-4		1.0000	Unknown	PerchlorateDX2	PerchlorateDX2
15	LCS1		1.0000	Unknown	PerchlorateDX2	PerchlorateDX2
16	LCS2		1.0000	Unknown	PerchlorateDX2	PerchlorateDX2
17	2705020848_1/50000		50000.0000	Unknown	PerchlorateDX2	PerchlorateDX2
18	2705020848MS		1.0000	Unknown	PerchlorateDX2	PerchlorateDX2
19	2705020848MSD		1.0000	Unknown	PerchlorateDX2	PerchlorateDX2
20	2705020853_1/50000		50000.0000	Unknown	PerchlorateDX2	PerchlorateDX2
21	2705070463_1/5		5.0000	Unknown	PerchlorateDX2	PerchlorateDX2
22	2705070465_1/10		10.0000	Unknown	PerchlorateDX2	PerchlorateDX2
23	2705030363_1/2		2.0000	Unknown	PerchlorateDX2	PerchlorateDX2
24	2705030175_1/50000		50000.0000	Unknown	PerchlorateDX2	PerchlorateDX2
25	2705030177_1/5000		5000.0000	Unknown	PerchlorateDX2	PerchlorateDX2
26	2705030178_1/50000		50000.0000	Unknown	PerchlorateDX2	PerchlorateDX2
27	2705030179_1/50000		50000.0000	Unknown	PerchlorateDX2	PerchlorateDX2
28	2705030182_1/10000		10000.0000	Unknown	PerchlorateDX2	PerchlorateDX2
29	CCV		1.0000	Unknown	PerchlorateDX2	PerchlorateDX2
30	2705030184_1/10000-DNR		10000.0000	Unknown	PerchlorateDX2	PerchlorateDX2
31	2705030203_1/50000		50000.0000	Unknown	PerchlorateDX2	PerchlorateDX2
32	2705030204_1/50000		50000.0000	Unknown	PerchlorateDX2	PerchlorateDX2
33	2705030205_1/50000		50000.0000	Unknown	PerchlorateDX2	PerchlorateDX2
34	2705030208_1/10000		10000.0000	Unknown	PerchlorateDX2	PerchlorateDX2
35	2705030218_1/10000		10000.0000	Unknown	PerchlorateDX2	PerchlorateDX2
36	2705040114_1/50000		50000.0000	Unknown	PerchlorateDX2	PerchlorateDX2
37	2705040305_1/50000		50000.0000	Unknown	PerchlorateDX2	PerchlorateDX2
38	2705040306_1/50000		50000.0000	Unknown	PerchlorateDX2	PerchlorateDX2
39	2705040307_1/50000		50000.0000	Unknown	PerchlorateDX2	PerchlorateDX2
40	HCV		1.0000	Unknown	PerchlorateDX2	PerchlorateDX2
41	STOP		1.0000	Unknown	STOP	PerchlorateDX2

Sequence: 050907-CLO4-IC2000-RAJA
Operator: raja

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Printed: 5/11/2007 4:41:01 PM

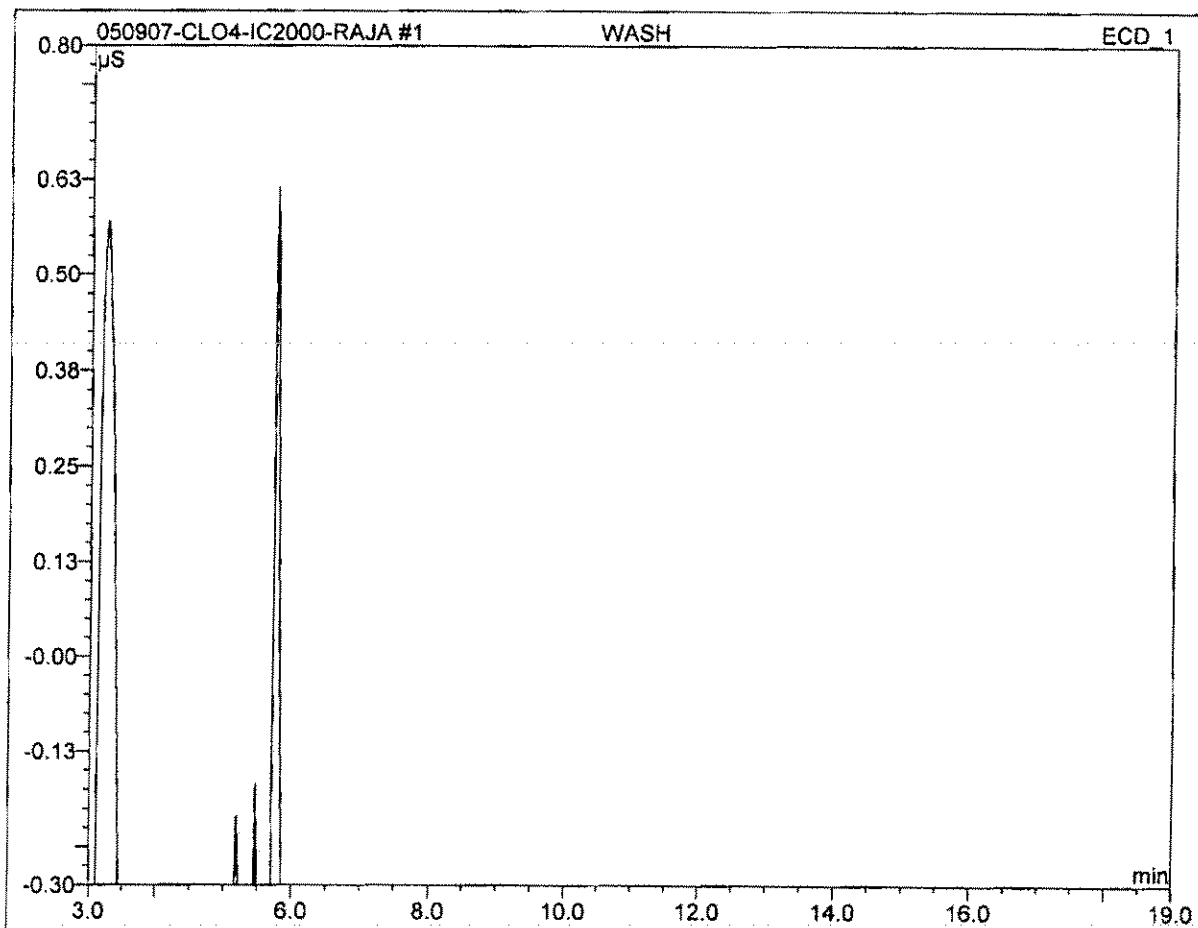
Title: 0210A
Datasource: D7LW3831_local
Location: ICS-2000\CLO4-2007-MAY
Timebase: ICS-2000
#Samples: 41

Created: 5/9/2007 11:27:23 AM by raja
Last Update: 5/11/2007 4:40:48 PM by raja

No.	Name	Status	Inj. Date/Time	*Analyst
1	WASH	Finished	5/8/2007 10:16:06 AM	raja
2	CAL1	Finished	5/8/2007 10:37:31 AM	raja
3	CAL2	Finished	5/8/2007 10:58:56 AM	raja
4	CAL3	Finished	5/8/2007 11:20:22 AM	raja
5	CAL4	Finished	5/8/2007 11:41:47 AM	raja
6	CAL5	Finished	5/8/2007 12:03:13 PM	raja
7	CAL6	Finished	5/8/2007 12:24:39 PM	raja
8	CAL7	Finished	5/8/2007 12:46:05 PM	raja
9	WASH	Finished	5/9/2007 1:37:49 PM	raja
10	QCS	Finished	5/9/2007 1:59:11 PM	raja
11	IPC	Finished	5/9/2007 2:20:32 PM	raja
12	MBLK	Finished	5/9/2007 2:41:53 PM	raja
13	MRL-2	Finished	5/9/2007 3:03:14 PM	raja
14	MRL-4	Finished	5/9/2007 3:24:36 PM	raja
15	LCS1	Finished	5/9/2007 3:45:58 PM	raja
16	LCS2	Finished	5/9/2007 4:07:20 PM	raja
17	2705020848_1/50000	Finished	5/9/2007 4:28:41 PM	raja
18	2705020848MS	Finished	5/9/2007 4:50:03 PM	raja
19	2705020848MSD	Finished	5/9/2007 5:11:24 PM	raja
20	2705020853_1/50000	Finished	5/9/2007 5:32:46 PM	raja
21	2705070463_1/5	Finished	5/9/2007 5:54:07 PM	raja
22	2705070465_1/10	Finished	5/9/2007 6:15:29 PM	raja
23	2705030363_1/2	Finished	5/9/2007 6:36:50 PM	raja
24	2705030175_1/50000	Finished	5/9/2007 6:58:11 PM	raja
25	2705030177_1/5000	Finished	5/9/2007 7:19:33 PM	raja
26	2705030178_1/50000	Finished	5/9/2007 7:40:55 PM	raja
27	2705030179_1/50000	Finished	5/9/2007 8:02:17 PM	raja
28	2705030182_1/10000	Finished	5/9/2007 8:23:38 PM	raja
29	CCV	Finished	5/9/2007 8:45:00 PM	raja
30	2705030184_1/10000-DNR	Finished	5/9/2007 9:06:21 PM	raja
31	2705030203_1/50000	Finished	5/9/2007 9:27:42 PM	raja
32	2705030204_1/50000	Finished	5/9/2007 9:49:37 PM	raja
33	2705030205_1/50000	Finished	5/9/2007 10:11:55 PM	raja
34	2705030208_1/10000	Finished	5/9/2007 10:33:23 PM	raja
35	2705030218_1/10000	Finished	5/9/2007 10:54:51 PM	raja
36	2705040114_1/50000	Finished	5/9/2007 11:16:19 PM	raja
37	2705040305_1/50000	Finished	5/9/2007 11:37:47 PM	raja
38	2705040306_1/50000	Finished	5/9/2007 11:59:15 PM	raja
39	2705040307_1/50000	Finished	5/10/2007 12:20:43 AM	raja
40	HCV	Finished	5/10/2007 12:42:12 AM	raja
41	STOP	Finished	5/10/2007 1:03:40 AM	raja

1 WASH

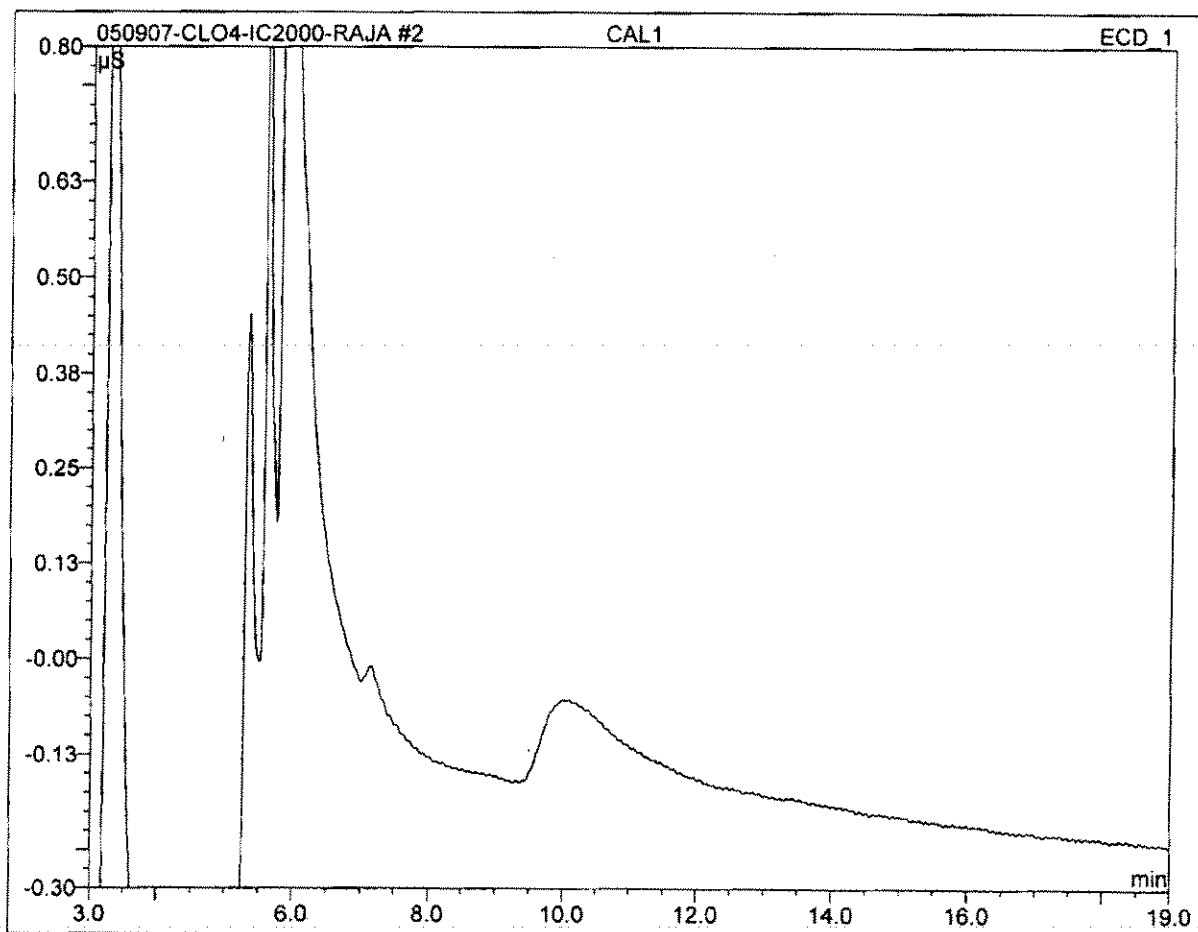
Sample Name:	WASH	Channel:	ECD_1
Sample Type:	unknown	Control Program:	PerchlorateDX2
Recording Time:	05/08/2007 10:16	Quantif. Method:	PerchlorateDX2
Analyst:	raja	Dilution Factor:	1.0000



No.	Ret. Time min	Peak Name	Height µS	Area µS*min	Rel. Area %	Amount ug/L	Type
Total:			0.000	0.000	0.00	0.000	

2 CAL1

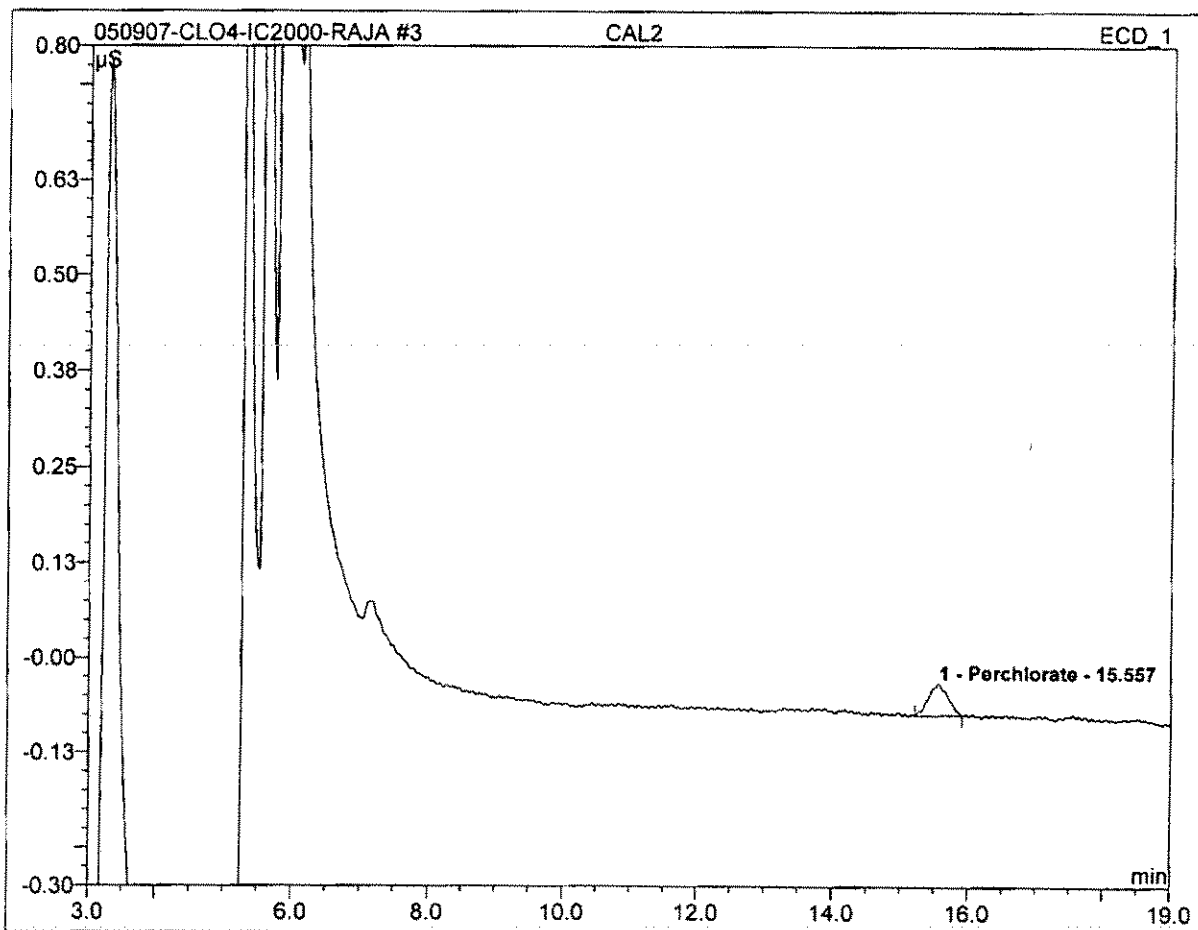
Sample Name:	CAL1	Channel:	ECD_1
Sample Type:	standard	Control Program:	PerchlorateDX2
Recording Time:	05/08/2007 10:37	Quantif. Method:	PerchlorateDX2
Analyst:	raja	Dilution Factor:	1.0000



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ug/L	Type
Total:			0.000	0.000	0.00	0.000	

3 CAL2**RAJA060913-2**

Sample Name:	CAL2	Channel:	ECD_1
Sample Type:	standard	Control Program:	PerchlorateDX2
Recording Time:	05/08/2007 10:58	Quantif. Method:	PerchlorateDX2
Analyst:	raja	Dilution Factor:	1.0000

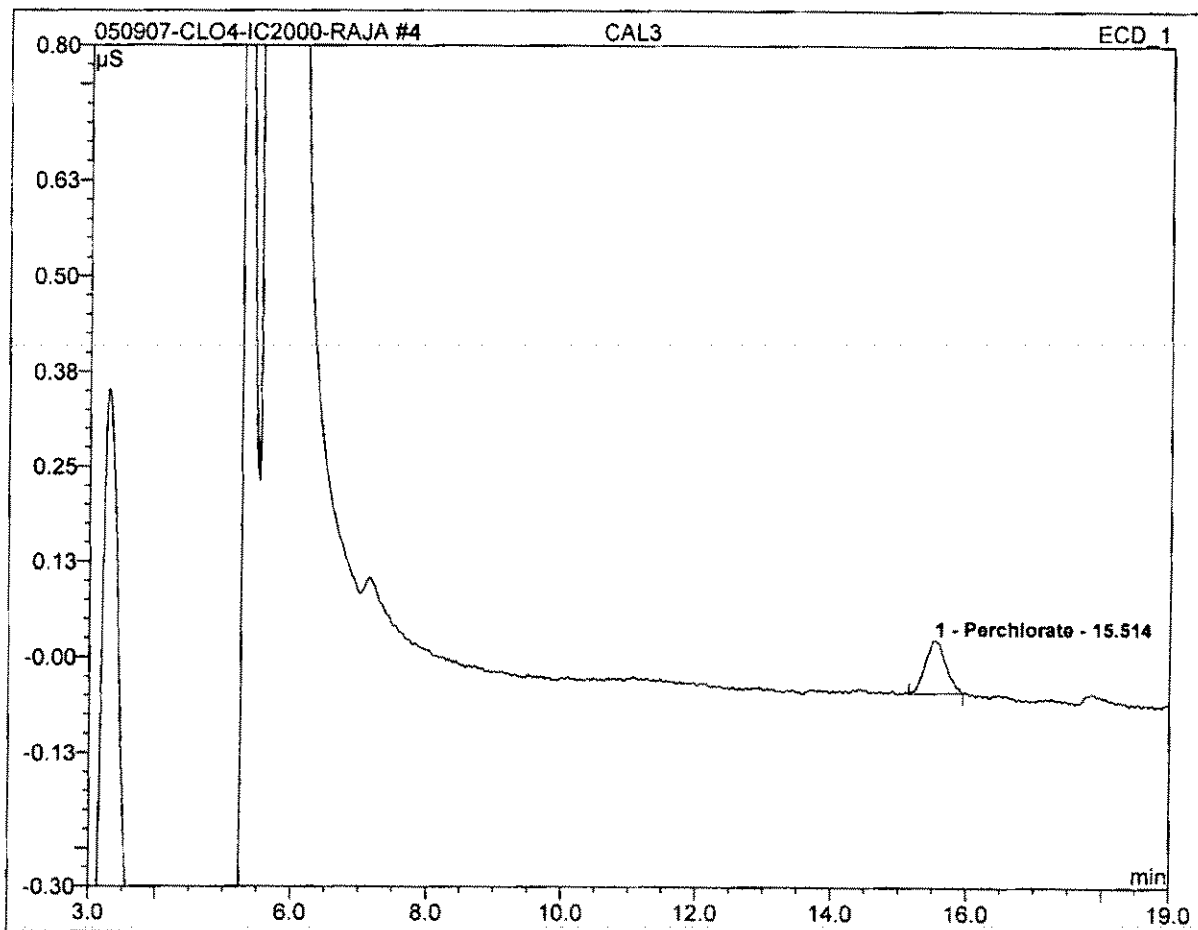


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ug/L	Type
1	15.56	Perchlorate	0.042	0.014	100.00	2.202	BMB
Total:			0.042	0.014	100.00	2.202	

4 CAL3**RAJA060913-3**

Sample Name: **CAL3**
Sample Type: **standard**
Recording Time: **05/08/2007 11:20**
Analyst: **raja**

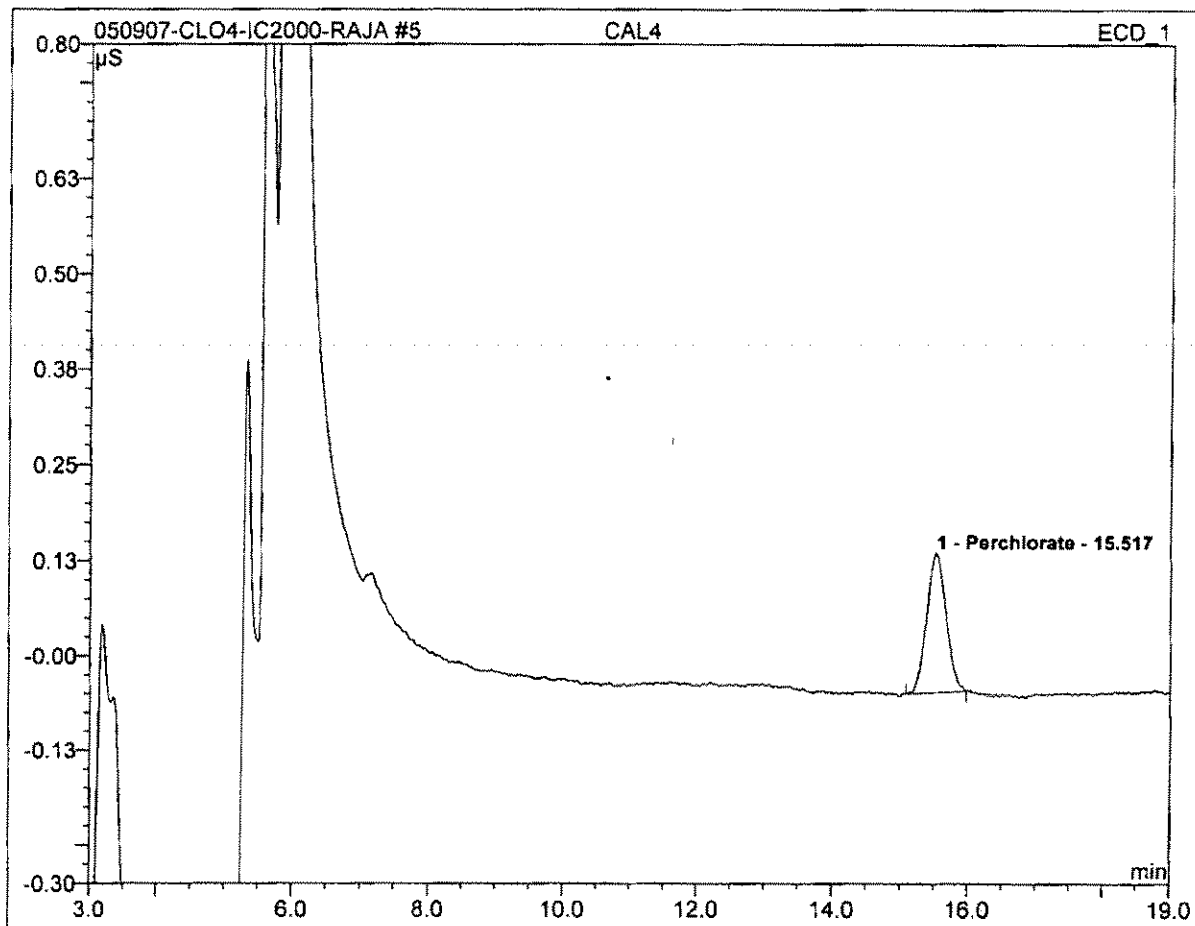
Channel: **ECD_1**
Control Program: **PerchlorateDX2**
Quantif. Method: **PerchlorateDX2**
Dilution Factor: **1.0000**



No.	Ret. Time min	Peak Name	Height µS	Area µS*min	Rel. Area %	Amount ug/L	Type
1	15.51	Perchlorate	0.069	0.024	100.00	3.770	BMB
Total:			0.069	0.024	100.00	3.770	

5 CAL4**RAJA060913-4**

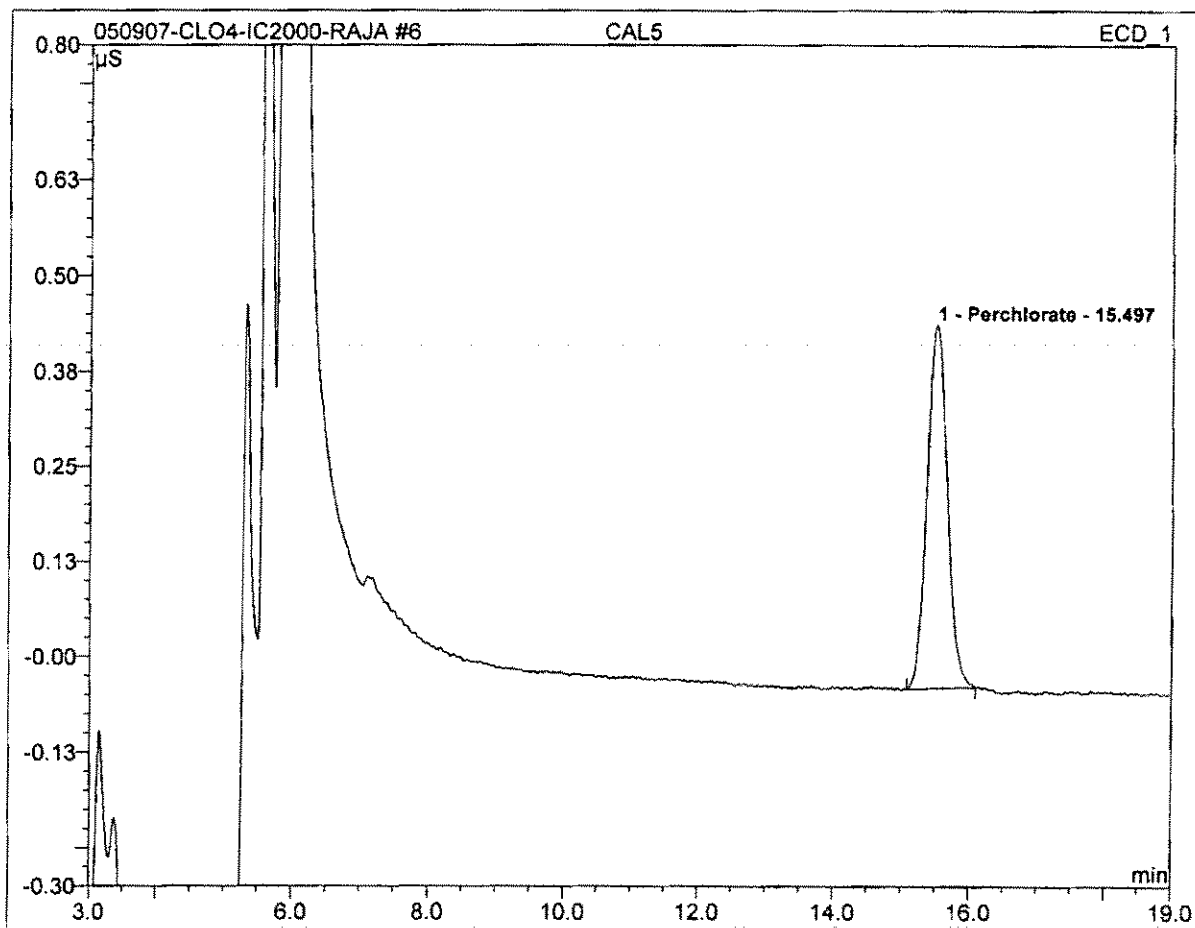
Sample Name:	CAL4	Channel:	ECD_1
Sample Type:	standard	Control Program:	PerchlorateDX2
Recording Time:	05/08/2007 11:41	Quantif. Method:	PerchlorateDX2
Analyst:	raja	Dilution Factor:	1.0000



No.	Ret. Time min	Peak Name	Height μS	Area $\mu\text{S}\cdot\text{min}$	Rel. Area %	Amount $\mu\text{g/L}$	Type
1	15.52	Perchlorate	0.182	0.061	100.00	9.427	BMB
Total:			0.182	0.061	100.00	9.427	

6 CAL5**RAJA060913-5**

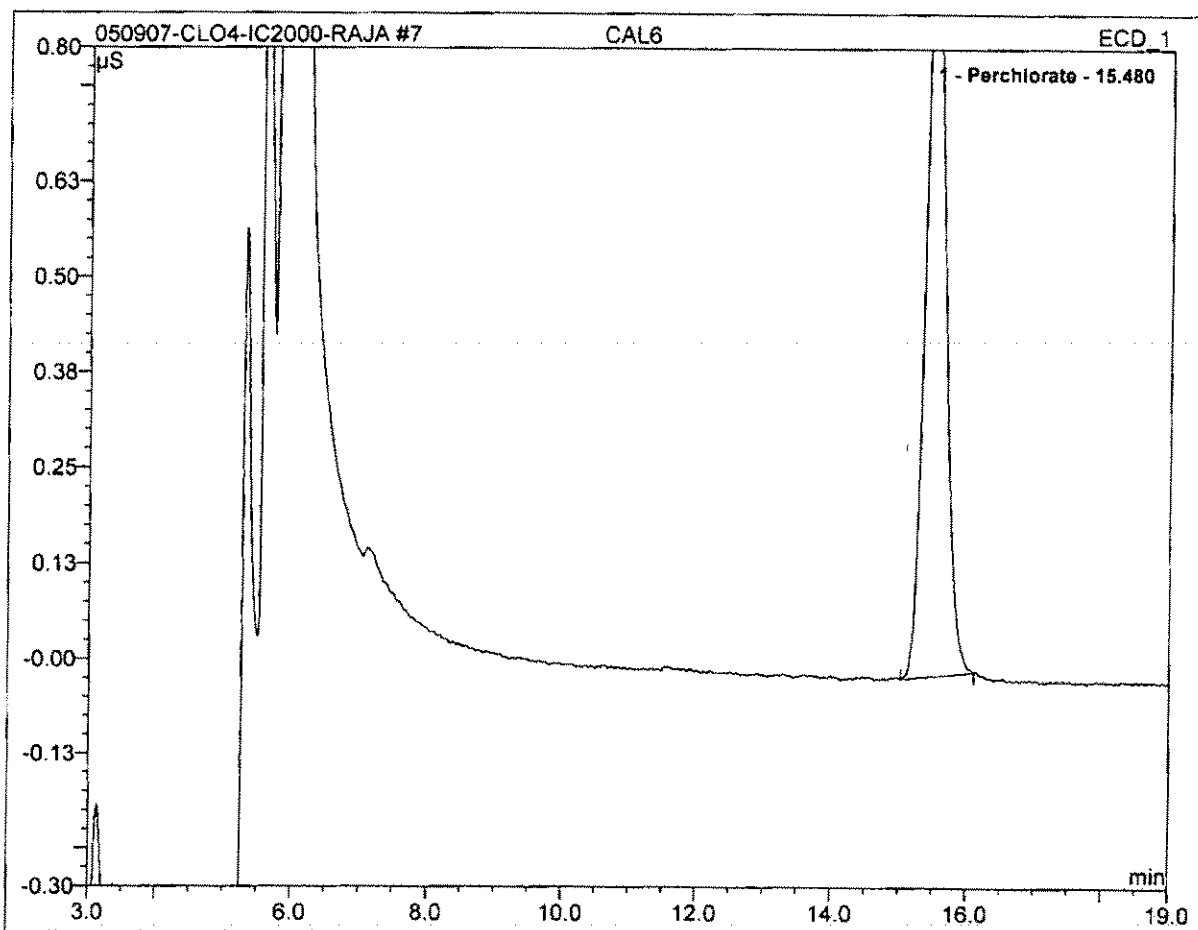
Sample Name:	CAL5	Channel:	ECD_1
Sample Type:	standard	Control Program:	PerchlorateDX2
Recording Time:	05/08/2007 12:03	Quantif. Method:	PerchlorateDX2
Analyst:	raja	Dilution Factor:	1.0000



No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount ug/L	Type
1	15.50	Perchlorate	0.477	0.164	100.00	24.830	BMB
Total:			0.477	0.164	100.00	24.830	

7 CAL6**RAJA060913-6**

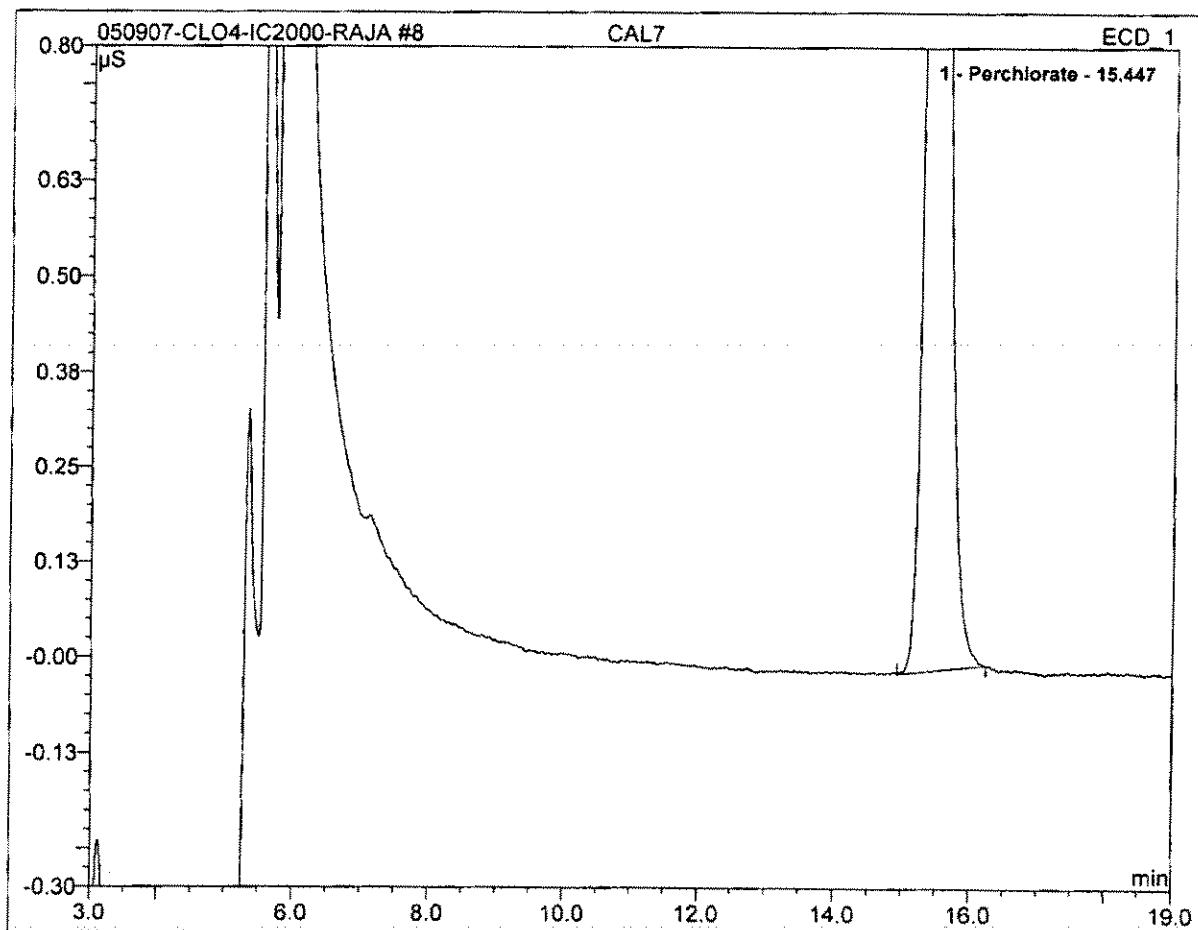
Sample Name:	CAL6	Channel:	ECD_1
Sample Type:	standard	Control Program:	PerchlorateDX2
Recording Time:	05/08/2007 12:24	Quantif. Method:	PerchlorateDX2
Analyst:	raja	Dilution Factor:	1.0000



No.	Ret. Time min	Peak Name	Height μS	Area μS*min	Rel. Area %	Amount ug/L	Type
1	15.48	Perchlorate	1.002	0.343	100.00	50.328	BMB
Total:			1.002	0.343	100.00	50.328	

8 CAL7**RAJA060913-7**

Sample Name:	CAL7	Channel:	ECD_1
Sample Type:	standard	Control Program:	PerchlorateDX2
Recording Time:	05/08/2007 12:46	Quantif. Method:	PerchlorateDX2
Analyst:	raja	Dilution Factor:	1.0000

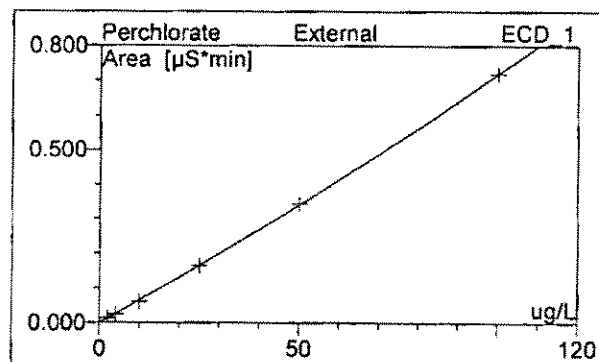
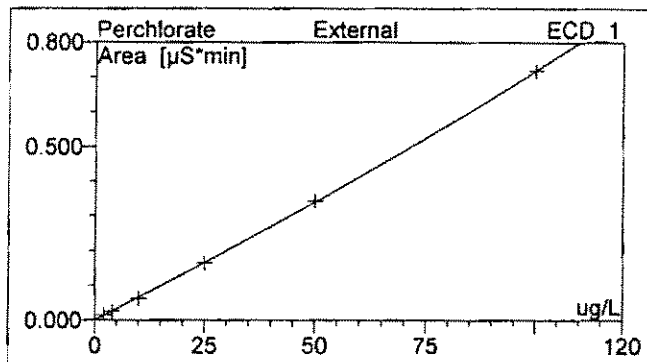
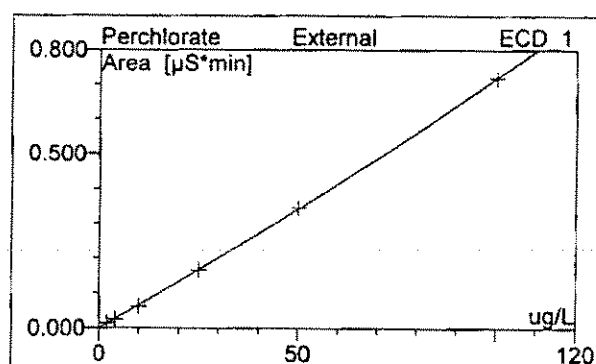
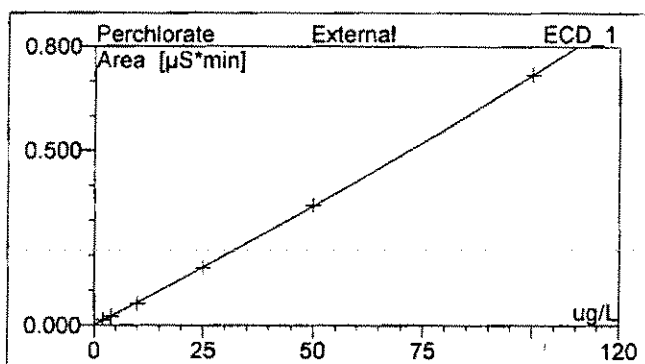


No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount ug/L	Type
1	15.45	Perchlorate	2.073	0.718	100.00	99.940	BMB
Total:			2.073	0.718	100.00	99.940	

8 CAL7**RAJA060913-7**

Sample Name: **CAL7**
 Vial Number: **22**
 Sample Type: **standard**
 Control Program: **PerchlorateDX2**
 Quantif. Method: **PerchlorateDX2**
 Recording Time: **5/8/2007 12:46**
 Run Time (min): **19.00**

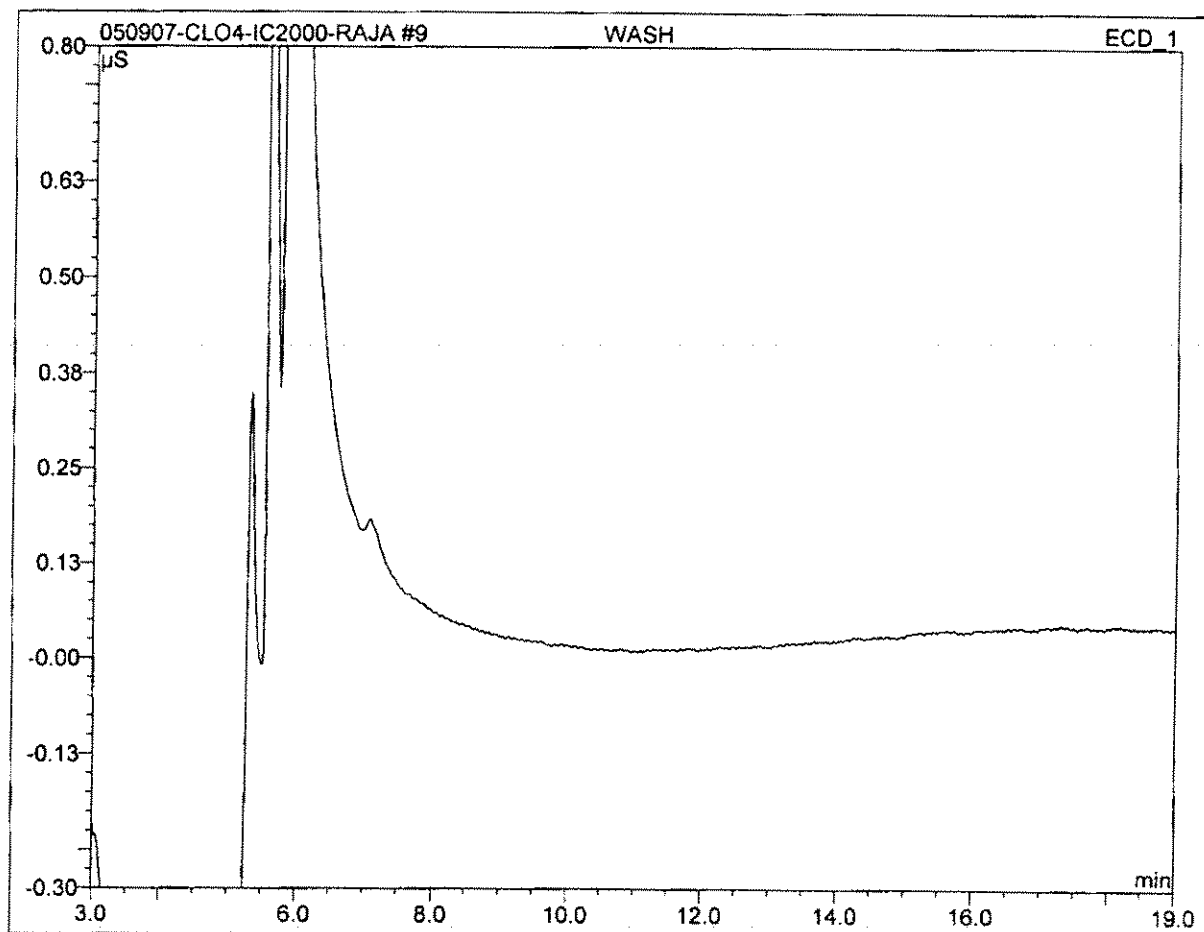
Injection Volume: **1000.0**
 Channel: **ECD_1**
 Wavelength: **n.a.**
 Bandwidth: **n.a.**
 Dilution Factor: **1.0000**
 Sample Weight: **1.0000**
 Sample Amount: **1.0000**



No.	Ret.Time min	Peak Name	Cal.Type	Points	Corr.Coeff. %	Offset	Slope	Curve
1	15.45	Perchlorate	Quad	6	99.9645	0.0000	0.0064	0.0000
Average:					99.9645	0.0000	0.0064	0.0000

9 WASH

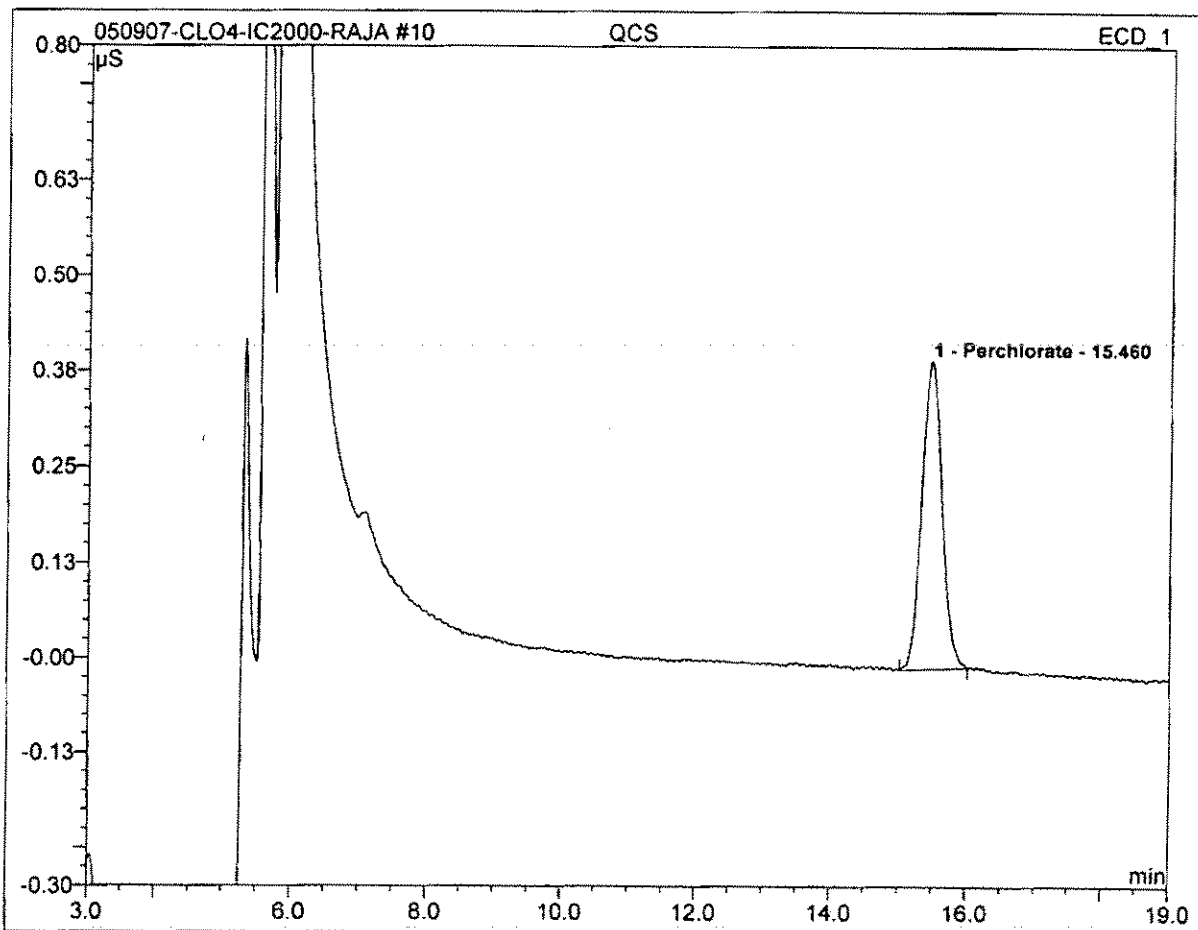
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Sample Type:	unknown	Control Program:	PerchlorateDX2
Recording Time:	05/09/2007 13:37	Quantif. Method:	PerchlorateDX2
Analyst:	raja	Dilution Factor:	1.0000



No.	Ret.Time min	Peak Name	Height μS	Area $\mu\text{S}\cdot\text{min}$	Rel.Area %	Amount $\mu\text{g/L}$	Type
Total:			0.000	0.000	0.00	0.000	

10 QCS

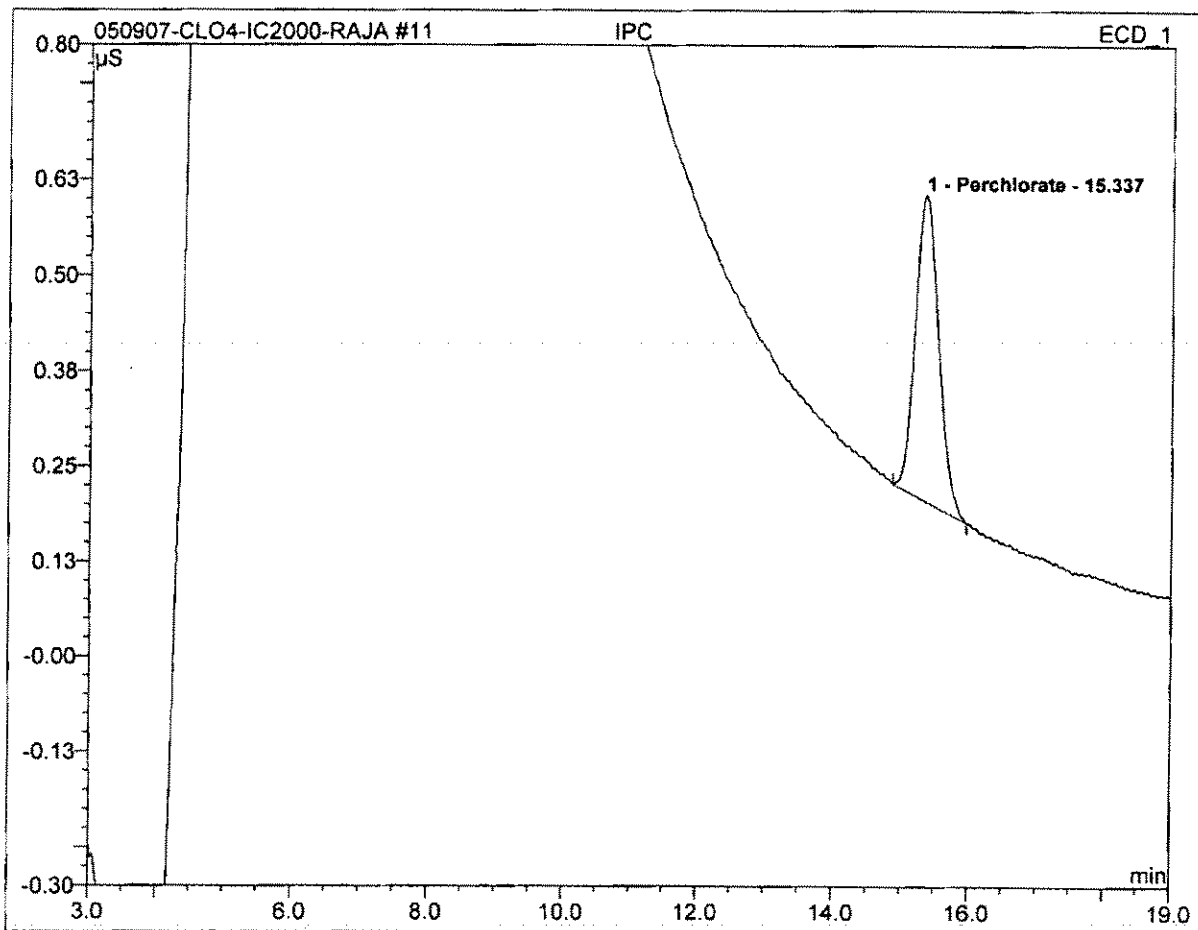
Sample Name:	QCS	Channel:	ECD_1
Sample Type:	unknown	Control Program:	PerchlorateDX2
Recording Time:	05/09/2007 13:59	Quantif. Method:	PerchlorateDX2
Analyst:	raja	Dilution Factor:	1.0000



No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount ug/L	Type
1	15.46	Perchlorate	0.402	0.138	100.00	20.916	BMB
Total:			0.402	0.138	100.00	20.916	

11 IPC

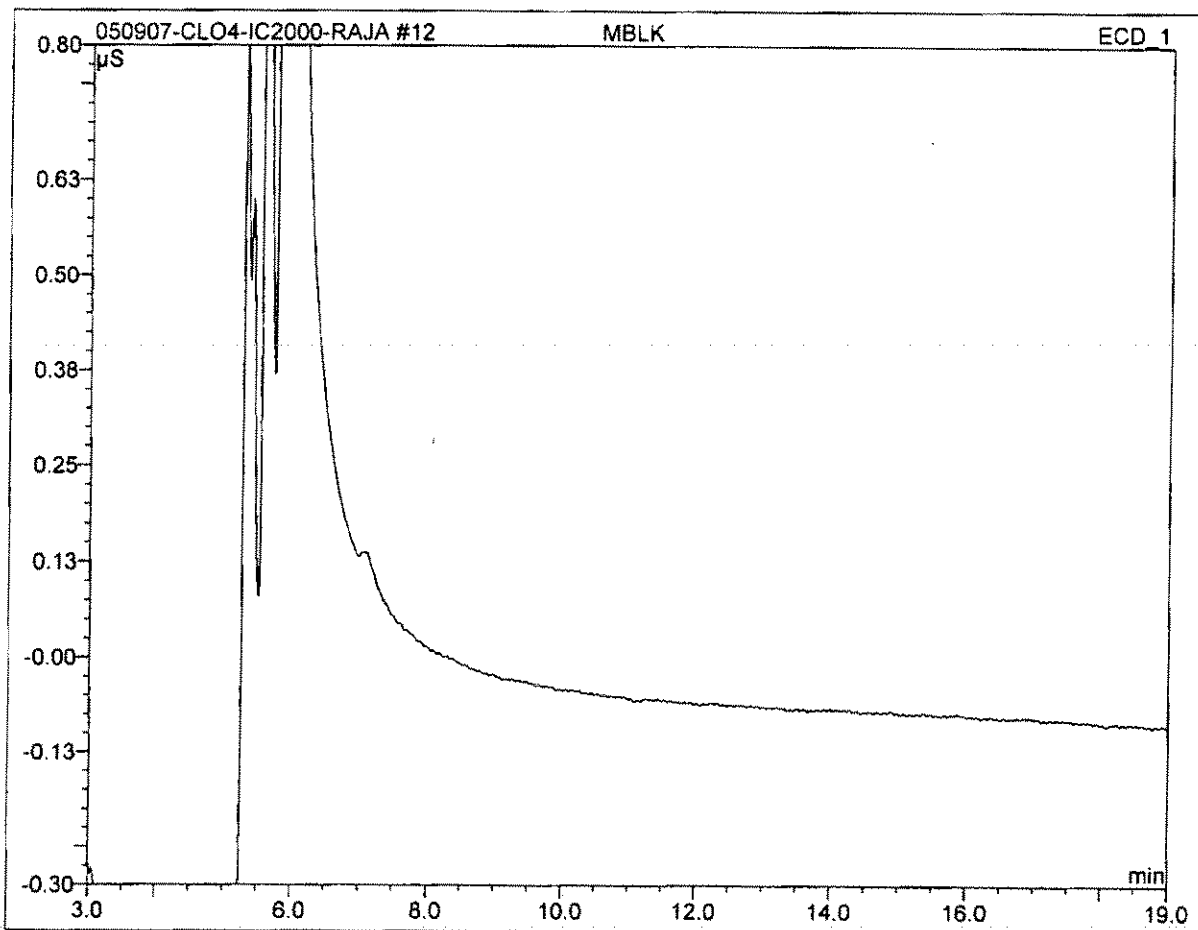
Sample Name:	IPC	Channel:	ECD_1
Sample Type:	unknown	Control Program:	PerchlorateDX2
Recording Time:	05/09/2007 14:20	Quantif. Method:	PerchlorateDX2
Analyst:	raja	Dilution Factor:	1.0000



No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount ug/L	Type
1	15.34	Perchlorate	0.400	0.161	100.00	24.397	BMB
Total:			0.400	0.161	100.00	24.397	

12 MBLK

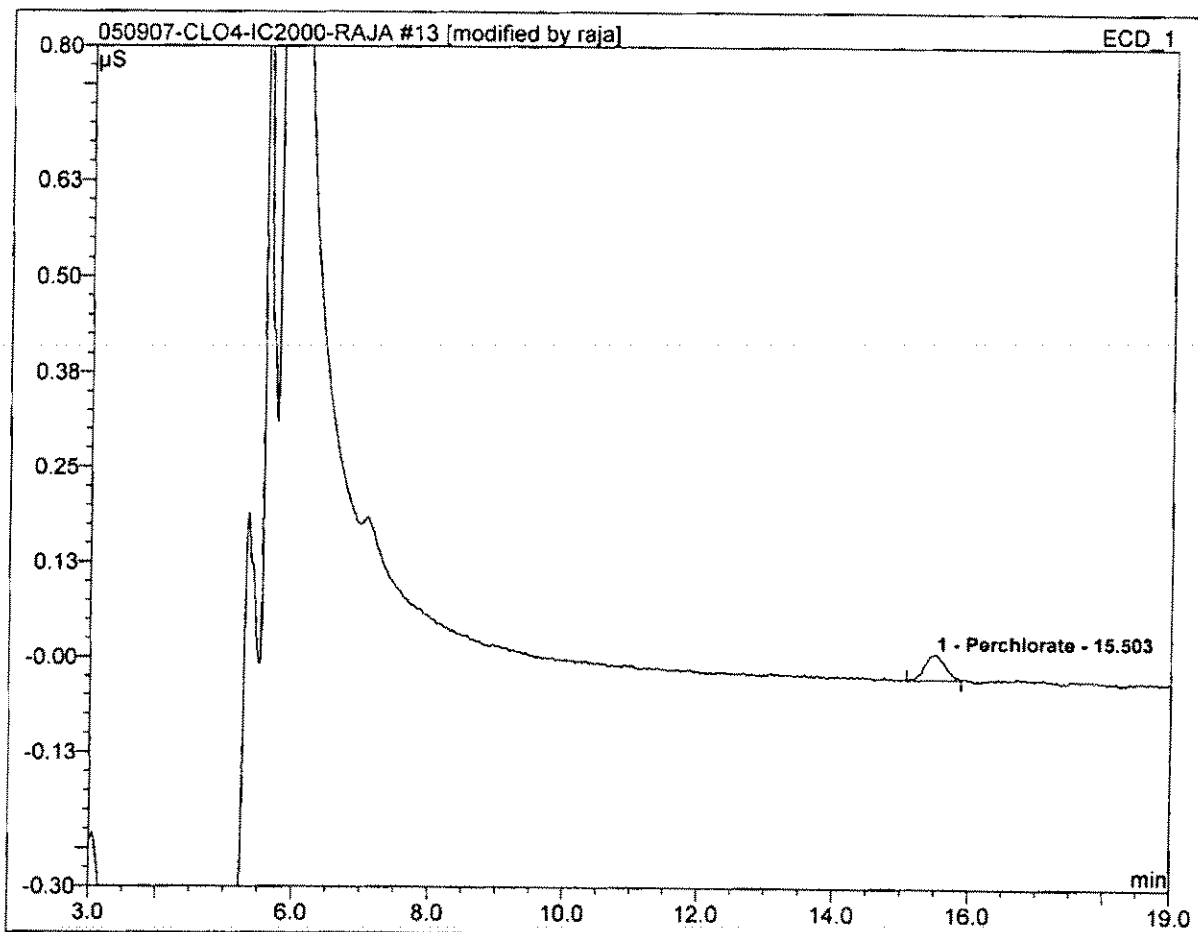
Sample Name:	MBLK	Channel:	ECD_1
Sample Type:	unknown	Control Program:	PerchlorateDX2
Recording Time:	05/09/2007 14:41	Quantif. Method:	PerchlorateDX2
Analyst:	raja	Dilution Factor:	1.0000



No.	Ret. Time min	Peak Name	Height μS	Area $\mu\text{S}\cdot\text{min}$	Rel. Area %	Amount $\mu\text{g/L}$	Type
Total:			0.000	0.000	0.00	0.000	

13 MRL-2

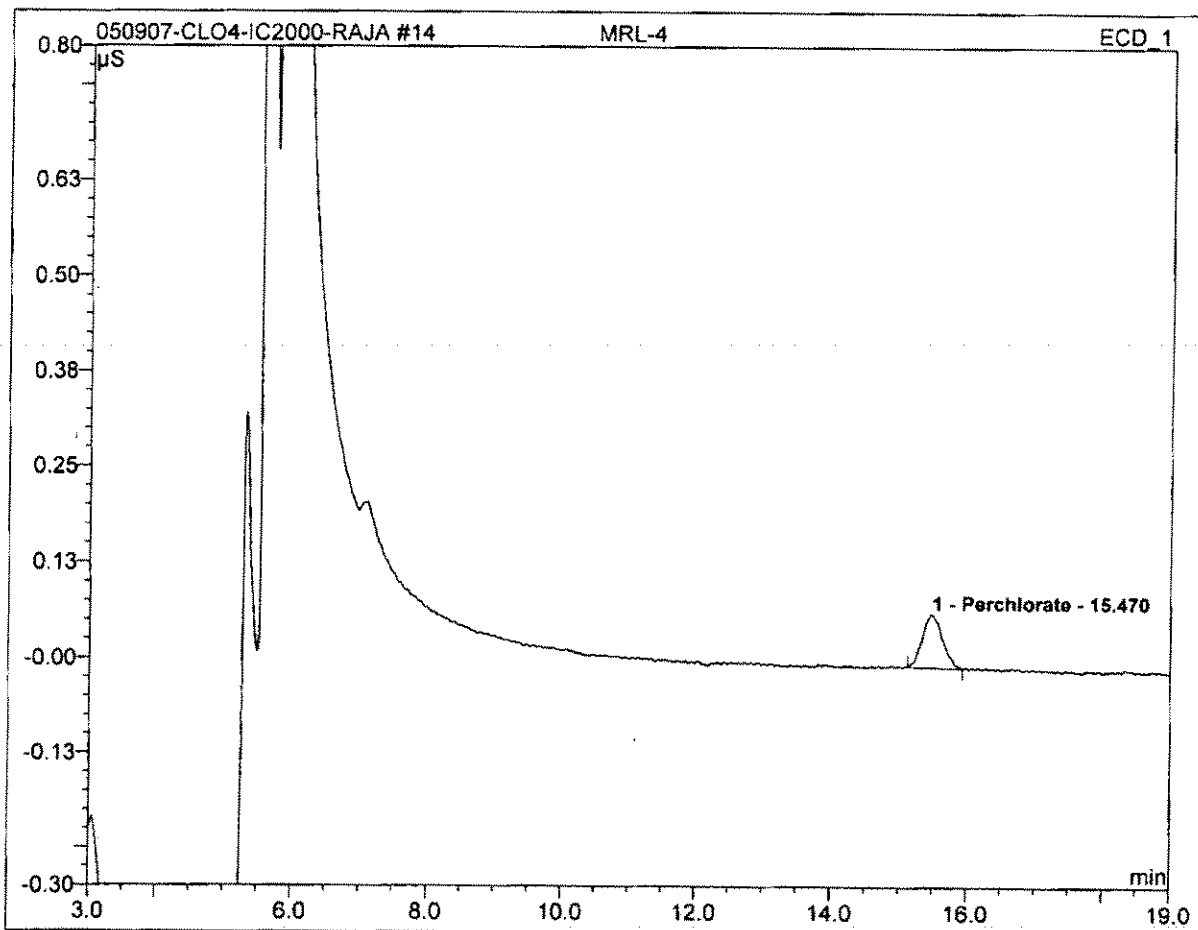
Sample Name:	MRL-2	Channel:	ECD_1
Sample Type:	unknown	Control Program:	PerchlorateDX2
Recording Time:	05/09/2007 15:03	Quantif. Method:	PerchlorateDX2
Analyst:	raja	Dilution Factor:	1.0000



No.	Ret. Time min	Peak Name	Height µS	Area µS*min	Rel. Area %	Amount ug/L	Type
1	15.50	Perchlorate	0.033	0.012	100.00	1.825	BMB*
Total:			0.033	0.012	100.00	1.825	

14 MRL-4

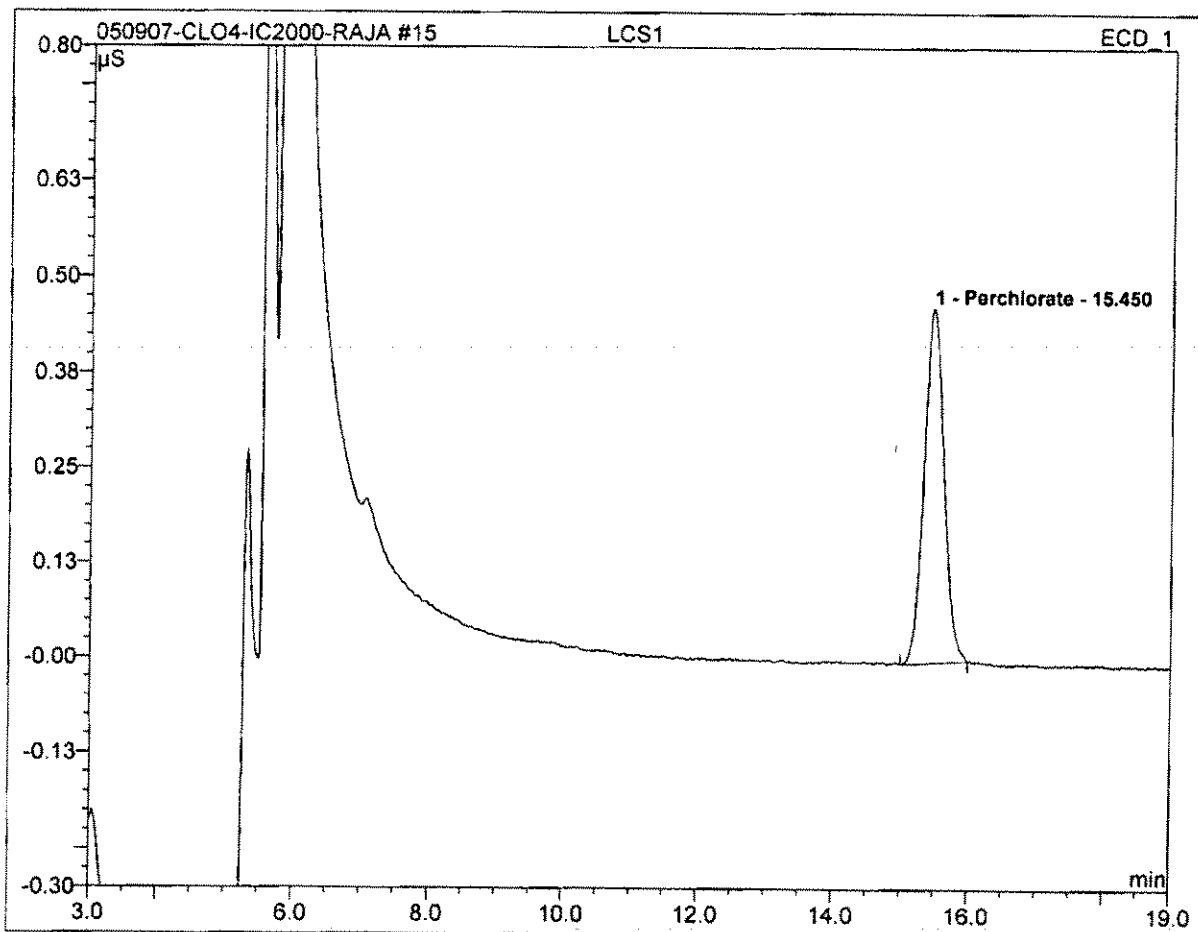
Sample Name:	MRL-4	Channel:	ECD_1
Sample Type:	unknown	Control Program:	PerchlorateDX2
Recording Time:	05/09/2007 15:24	Quantif. Method:	PerchlorateDX2
Analyst:	raja	Dilution Factor:	1.0000



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ug/L	Type
1	15.47	Perchlorate	0.069	0.024	100.00	3.676	BMB
Total:			0.069	0.024	100.00	3.676	

15 LCS1

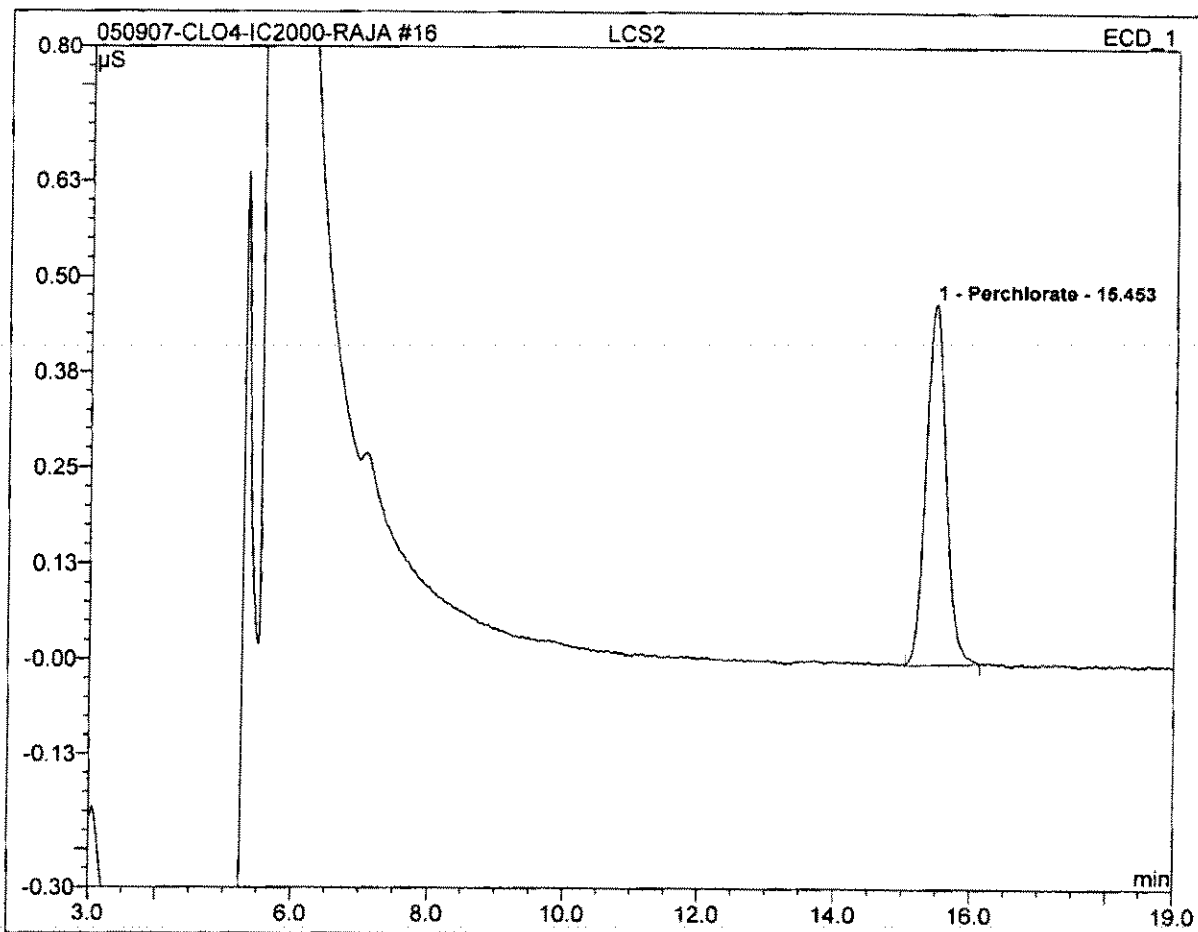
Sample Name:	LCS1	Channel:	ECD_1
Sample Type:	unknown	Control Program:	PerchlorateDX2
Recording Time:	05/09/2007 15:45	Quantif. Method:	PerchlorateDX2
Analyst:	raja	Dilution Factor:	1.0000



No.	Ret. Time min	Peak Name	Height µS	Area µS*min	Rel. Area %	Amount ug/L	Type
1	15.45	Perchlorate	0.467	0.159	100.00	24.018	BMB
Total:			0.467	0.159	100.00	24.018	

16 LCS2

Sample Name:	LCS2	Channel:	ECD_1
Sample Type:	unknown	Control Program:	PerchlorateDX2
Recording Time:	05/09/2007 16:07	Quantif. Method:	PerchlorateDX2
Analyst:	raja	Dilution Factor:	1.0000

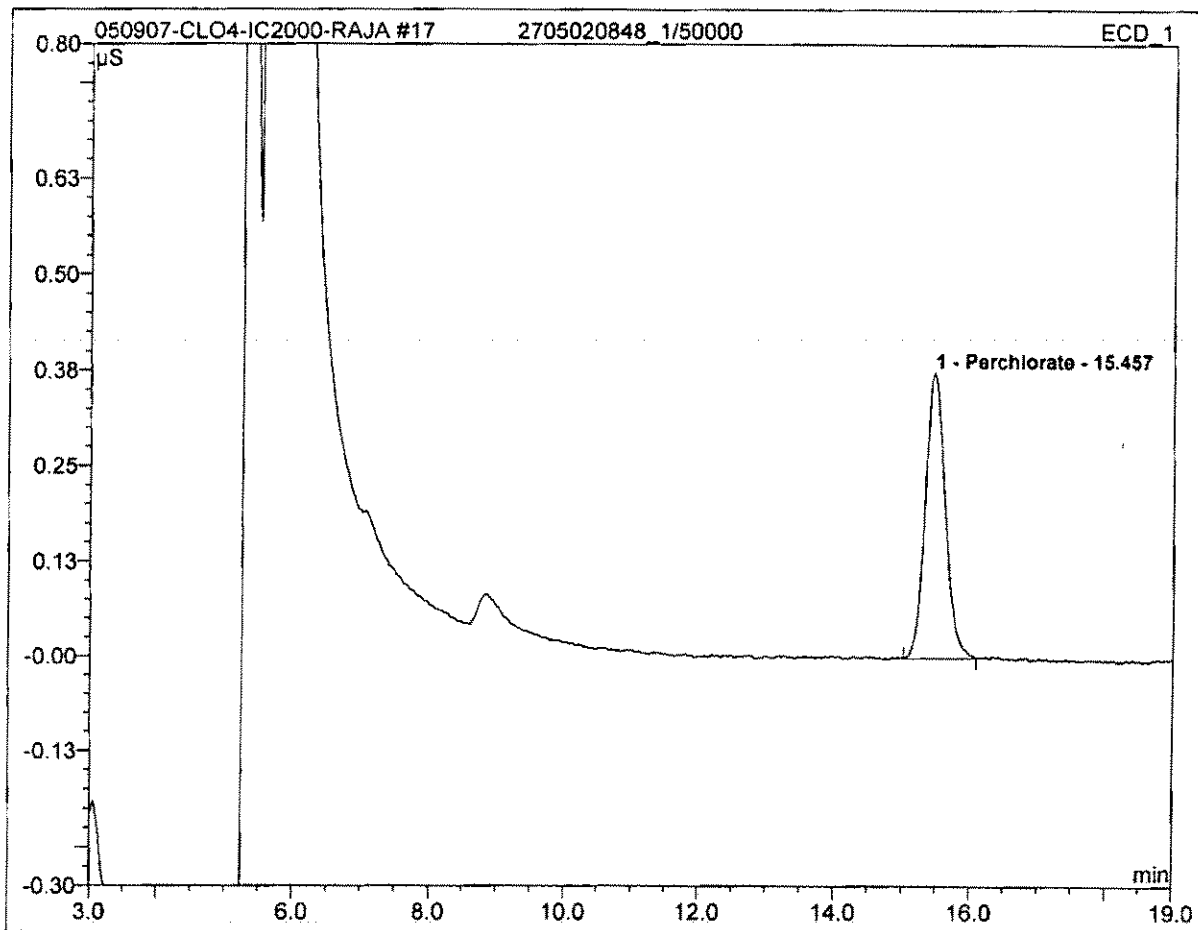


No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount ug/L	Type
1	15.45	Perchlorate	0.471	0.162	100.00	24.469	BMB
Total:			0.471	0.162	100.00	24.469	

17 2705020848_1/50000

Sample Name: 2705020848_1/50000
Sample Type: unknown
Recording Time: 05/09/2007 16:28
Analyst: raja

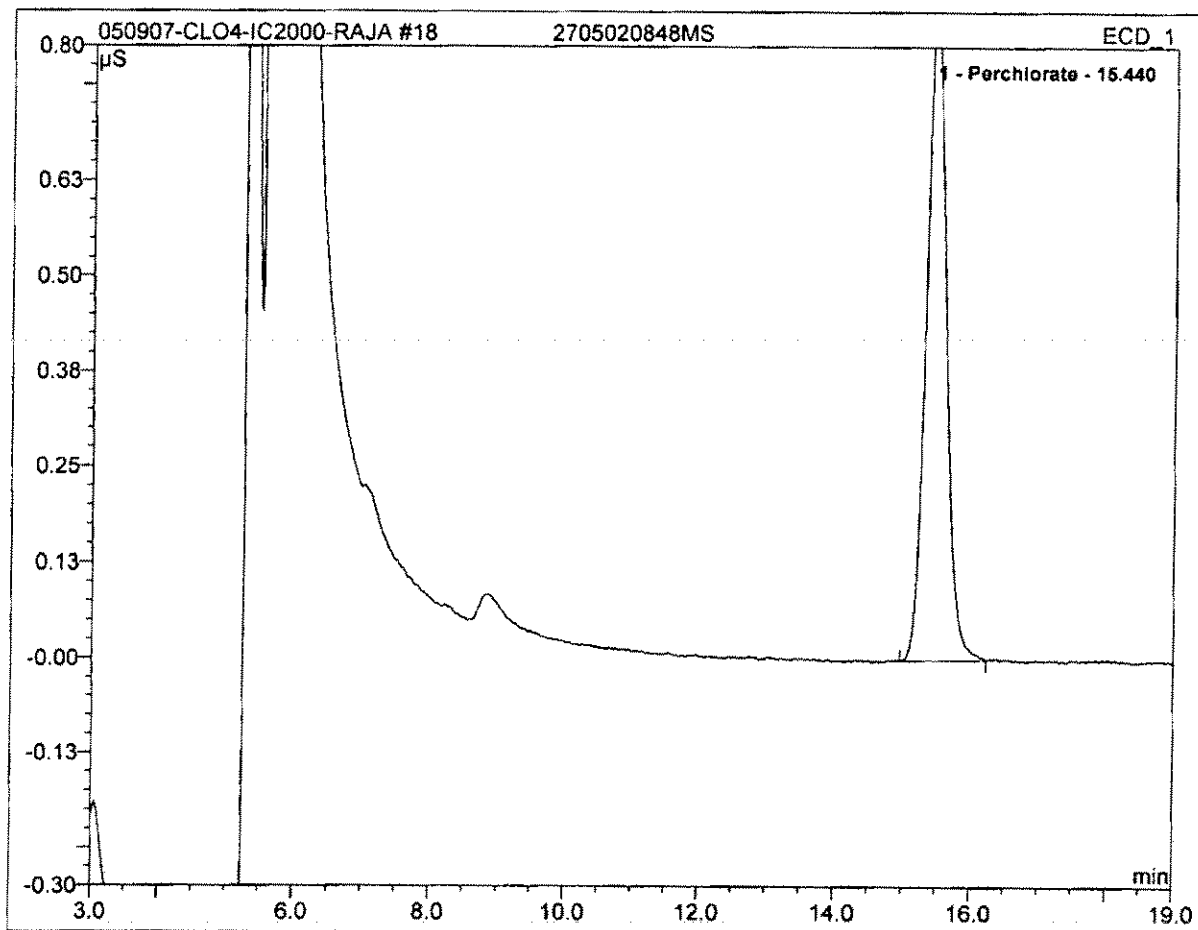
Channel: ECD_1
Control Program: PerchlorateDX2
Quantif. Method: PerchlorateDX2
Dilution Factor: 50000.0000



No.	Ret. Time min	Peak Name	Height μS	Area μS*min	Rel. Area %	Amount ug/L	Type
1	15.46	Perchlorate	0.375	0.129	100.00	980595.894	BMB
Total:			0.375	0.129	100.00	980595.894	

18 2705020848MS

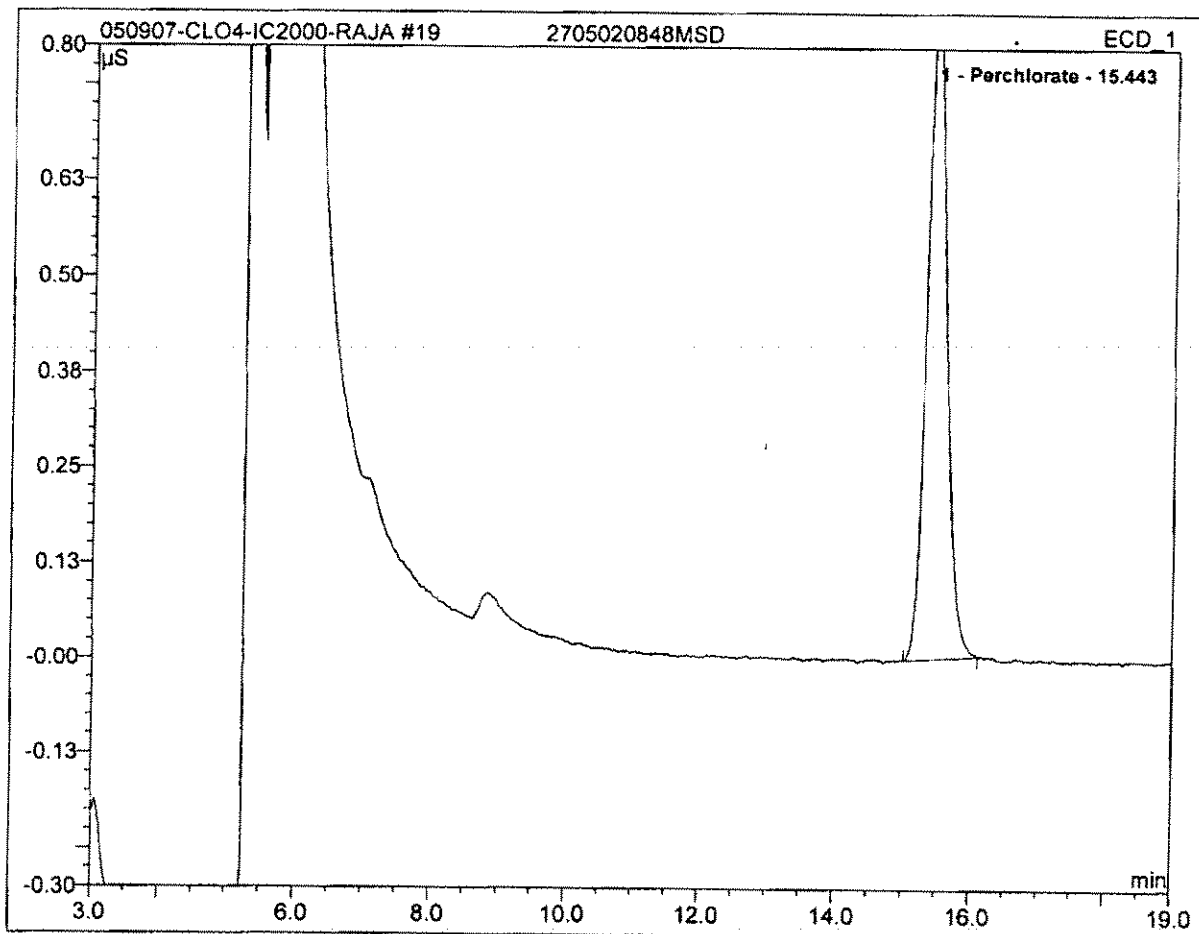
Sample Name:	2705020848MS	Channel:	ECD_1
Sample Type:	unknown	Control Program:	PerchlorateDX2
Recording Time:	05/09/2007 16:50	Quantif. Method:	PerchlorateDX2
Analyst:	raja	Dilution Factor:	1.0000



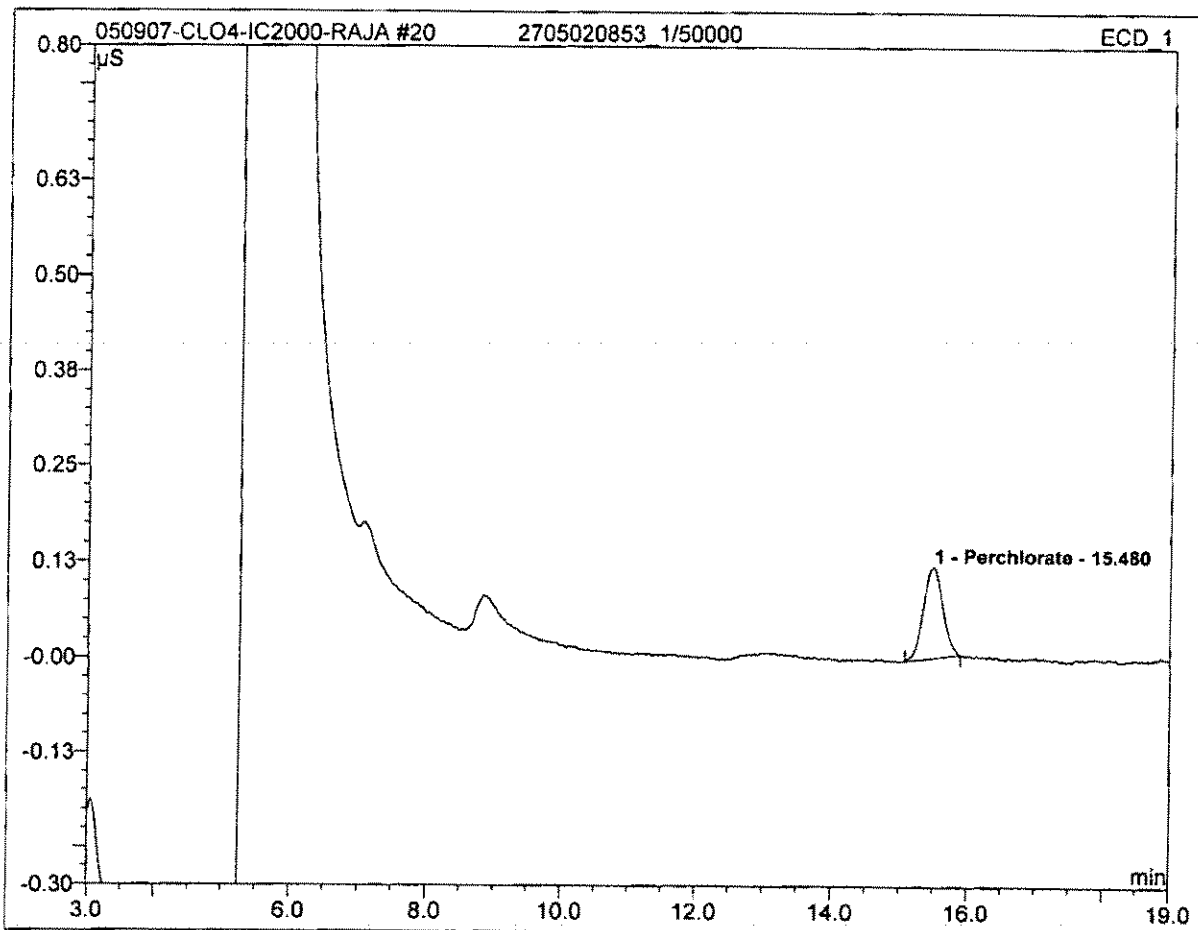
No.	Ret. Time min	Peak Name	Height µS	Area µS*min	Rel. Area %	Amount ug/L	Type
1	15.44	Perchlorate	0.850	0.291	100.00	43.151	BMB
Total:			0.850	0.291	100.00	43.151	

19 2705020848MSD

Sample Name:	2705020848MSD	Channel:	ECD_1
Sample Type:	unknown	Control Program:	PerchlorateDX2
Recording Time:	05/09/2007 17:11	Quantif. Method:	PerchlorateDX2
Analyst:	raja	Dilution Factor:	1.0000



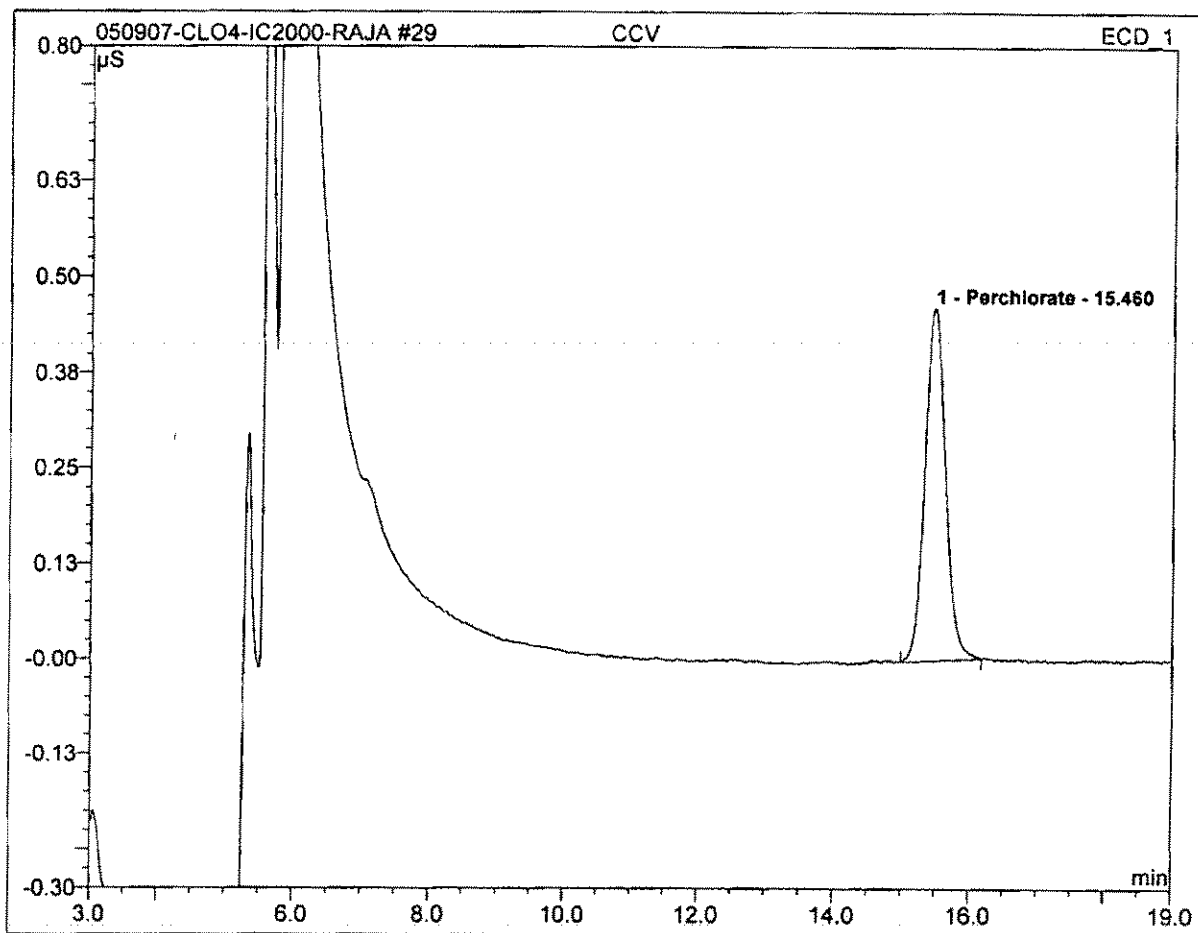
No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount ug/L	Type
1	15.44	Perchlorate	0.851	0.289	100.00	42.782	BMB
Total:			0.851	0.289	100.00	42.782	

20 2705020853_1/50000Sample Name: 2705020853_1/50000
Sample Type: unknown
Recording Time: 05/09/2007 17:32
Analyst: rajaChannel: ECD_1
Control Program: PerchlorateDX2
Quantif. Method: PerchlorateDX2
Dilution Factor: 50000.0000

No.	Ret. Time min	Peak Name	Height µS	Area µS*min	Rel. Area %	Amount ug/L	Type
1	15.48	Perchlorate	0.118	0.039	100.00	304907.450	BMB
Total:			0.118	0.039	100.00	304907.450	

29 CCV

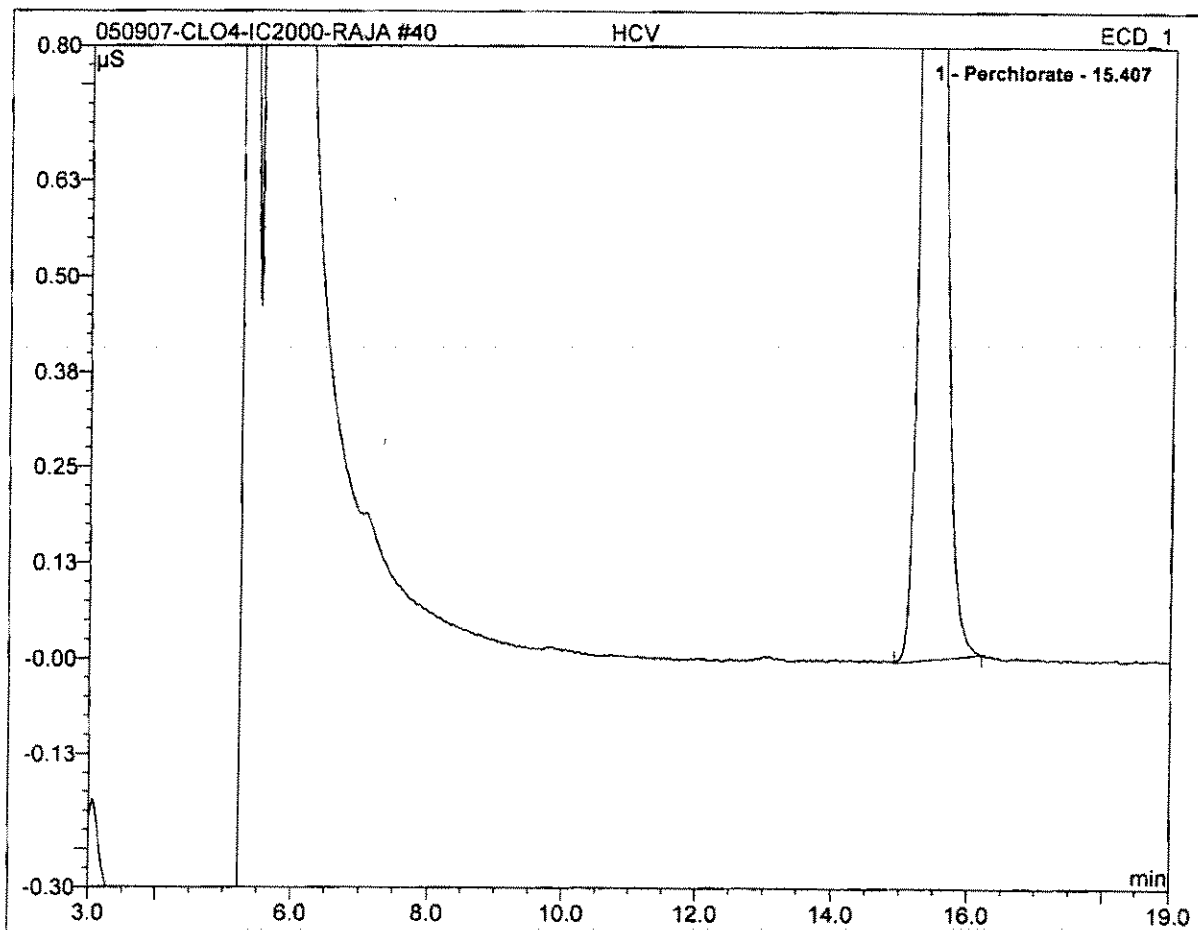
Sample Name:	CCV	Channel:	ECD_1
Sample Type:	unknown	Control Program:	PerchlorateDX2
Recording Time:	05/09/2007 20:45	Quantif. Method:	PerchlorateDX2
Analyst:	raja	Dilution Factor:	1.0000



No.	Ret. Time min	Peak Name	Height µS	Area µS*min	Rel. Area %	Amount ug/L	Type
1	15.46	Perchlorate	0.462	0.162	100.00	24.431	BMB
Total:			0.462	0.162	100.00	24.431	

40 HCV

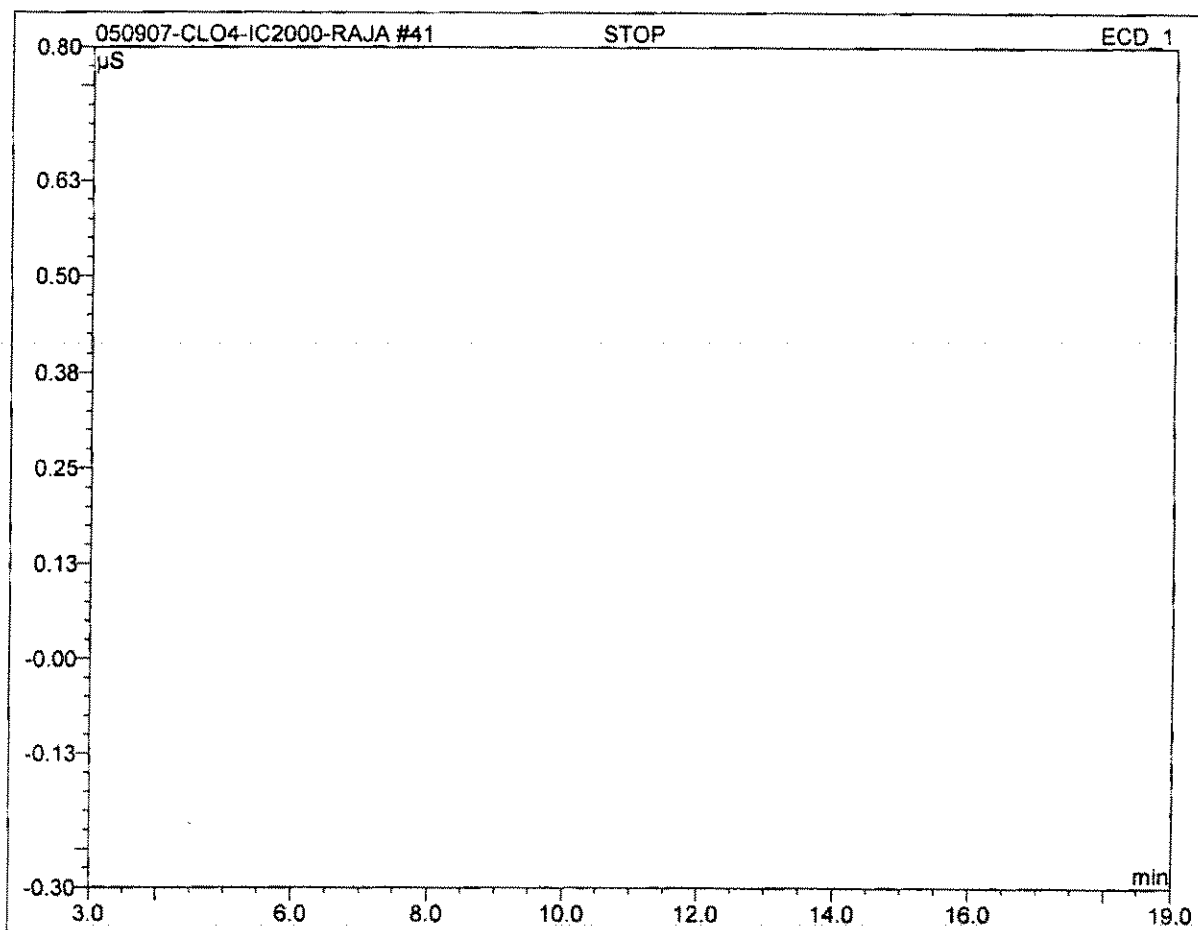
Sample Name:	HCV	Channel:	ECD_1
Sample Type:	unknown	Control Program:	PerchlorateDX2
Recording Time:	05/10/2007 00:42	Quantif. Method:	PerchlorateDX2
Analyst:	raja	Dilution Factor:	1.0000



No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount ug/L	Type
1	15.41	Perchlorate	2.039	0.697	100.00	97.330	BMB
Total:			2.039	0.697	100.00	97.330	

41 STOP

Sample Name:	STOP	Channel:	ECD_1
Sample Type:	unknown	Control Program:	STOP
Recording Time:	05/10/2007 01:03	Quantif. Method:	PerchlorateDX2
Analyst:	raja	Dilution Factor:	1.0000



No.	Ret. Time min	Peak Name	Height µS	Area µS*min	Rel. Area %	Amount ug/L	Type
Total:			0.000	0.000	0.00	0.000	

**Standard
Preparation
Worksheet
&
Certificate of
Analysis**

Reagent Preparation Documentation

Page: 12

Reagent: DBP LCS Stock Solution
 Date Received/Prepped: 082706/100106/110106/111606/122006/1010807/1020607
 Date Expired: 092706/110106/120106/121606/1012007/1020807/1050607
 Manufacturer: _____
 Storage Condition: _____

MW #: Raja060827-1
 By: Raja
 Matrix: aq
 Amount: 100ml
 Lot #: _____

Component	Comment	Standard	Concentration
Chlorite 1000ppm Exp: -03-24-07	1000 mL ? Add 50 mL of EDA (LMR060129-12) the	R 201401	10ppm
Chlorate 1000ppm Exp: -05-31-09	1000 mL dilute to 100 mL with D.I. water	R 201400	10ppm
Bromide Exp: -10-27-07	500 mL	R 201369	5ppm
Comment: _____			

Reagent: DBP LCS Solution
 Date Received/Prepped: 082706/100106/110106/111606/122006/1010807/1020607
 Date Expired: 092706/110106/120106/121606/1012007/1020807/1050607
 Manufacturer: _____
 Storage Condition: _____

MW #: Raja060827-2
 By: Raja
 Matrix: aq
 Amount: 100ml
 Lot #: _____

Component	Comment	Standard	Concentration
DBP LCS stock soln	2ml ? Dilute with D.I. water to 100 mL	Raja060827-1	ClO ₂ - 200ppb
EDA solution	50 mL	LMR060129-12	ClO ₃ - 200ppb
			Br - 100ppb
Comment: Prep: _____ Expired: _____			

Reagent: Perchlorate Calibration Stock Solution
 Date Received/Prepped: 091306/101106/111306/121007/1020607/1022807
 Date Expired: 121306/101107/1023001/1042107/1050607/1052807
 Manufacturer: _____
 Storage Condition: _____

MW #: Raja060913-1
 By: Raja
 Matrix: aq
 Amount: 100ml
 Lot #: _____

Component	Comment	Standard	Concentration
Perchlorate 1000ppm Exp: -012809	100 mL → Dilute with D.I. water to 100ml	R201449	1000ppb
MS / MSD			
Comment: <u>090407/1042707/1051607/1061207/</u> <u>060407/1072707/1081107/091207/</u>			

Reagent Preparation Documentation

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Reagent: ClO₄ Calibration Standard #1
 Date Received/Prepped: 091306/101106/113006/12107/1022807
 Date Expired: 121306/091107/1023007/1242107/1052807
 Manufacturer: _____
 Storage Condition: _____

MW #: Raja060913-2
 By: Raja
 Matrix: ag
 Amount: 100ml
 Lot #: _____

Component	Comment	Standard	Concentration
ClO ₄ Cal. Stock sol'n	200 ML → Dilute to 100ml with D.I. water	Raja060913-1	2.0 ppb

Comment: 030407/042707/051607/061207/
060407/072707/081607/091207/

Reagent: ClO₄ Calibration Standard #2
 Date Received/Prepped: 091306/101106/113006/12107/1022807
 Date Expired: 121306/091107/1023007/1242107/1052807
 Manufacturer: _____
 Storage Condition: _____

MW #: Raja060913-3
 By: Raja
 Matrix: ag
 Amount: 100ml
 Lot #: _____

Component	Comment	Standard	Concentration
ClO ₄ Cal. Stock sol'n	400 ML → Dilute to 100ml with D.I. water	Raja060913-1	4.0 ppb

Comment: 030407/042707/051607/061207/
060407/072707/081607/091207/

Reagent: ClO₄ Calibration Standard #3
 Date Received/Prepped: 091306/101106/113006/12107/1022807
 Date Expired: 121306/091107/1023007/1242107/1052807
 Manufacturer: _____
 Storage Condition: _____

MW #: Raja060913-4
 By: Raja
 Matrix: ag
 Amount: 100ml
 Lot #: _____

Component	Comment	Standard	Concentration
ClO ₄ Cal. stock sol'n	1 ml → Dilute to 100ml with D.I. water	Raja060913-1	10.0 ppb

Comment: 030407/042707/051607/061207/
060407/072707/081607/091207/

Reagent Preparation Documentation

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Reagent: ClO₄ Calibration Standard #4
 Date Received/Prepped: 091306/101106 / 113006/1012107 / 022807/030407
 Date Expired: 121306/011107 / 023007/042107 / 052807/060407
 Manufacturer: 023007
 Storage Condition: _____

MW #: Raja060913-5
 By: Raja
 Matrix: ag
 Amount: 100ml
 Lot #: _____

Component	Comment	Standard	Concentration
ClO ₄ cal. stock sol'n	2.5ml → Dilute to 100ml with D.I. water	Raja060913-1	25.0ppb

Comment: 042707/051607/061207/
072707/081607/091207/

Reagent: ClO₄ Calibration Standard #5
 Date Received/Prepped: 091306/101106 / 113006/1012107 / 022807/030407
 Date Expired: 121306/011107 / 023007/042107 / 052807/060407
 Manufacturer: _____
 Storage Condition: _____

MW #: Raja060913-6
 By: Raja
 Matrix: ag
 Amount: 100ml
 Lot #: _____

Component	Comment	Standard	Concentration
ClO ₄ cal. stock sol'n	5.0ml → Dilute to 100ml with D.I. water	Raja060913-1	50.0ppb

Comment: 042707/051607/
072707/081607/

Reagent: ClO₄ Calibration Standard #6
 Date Received/Prepped: 091306/101106 / 113006/1012107 / 022807/030407
 Date Expired: 121306/011107 / 023007/042107 / 052807/060407
 Manufacturer: _____
 Storage Condition: _____

MW #: Raja060913-7
 By: Raja
 Matrix: ag
 Amount: 100ml
 Lot #: _____

Component	Comment	Standard	Concentration
ClO ₄ cal. stock sol'n	10.0ml → Dilute to 100ml with D.I. water	Raja060913-1	100ppb

Comment: 042707/051607/061207/
072707/081607/091207/

ISO 9001:2000 Quality System Registered
ISO/IEC Guide 17025 ANSI Z540 Compliant
DLS ANSI/RAB Accredited

CERTIFIED WEIGHT REPORT:

Part Number: 57001 Lot # 072806 Solvent(s): ASTM Type 1 Water
Lot Number: 072806
Description: Perchlorate

R201449

Expiration Date: 072809

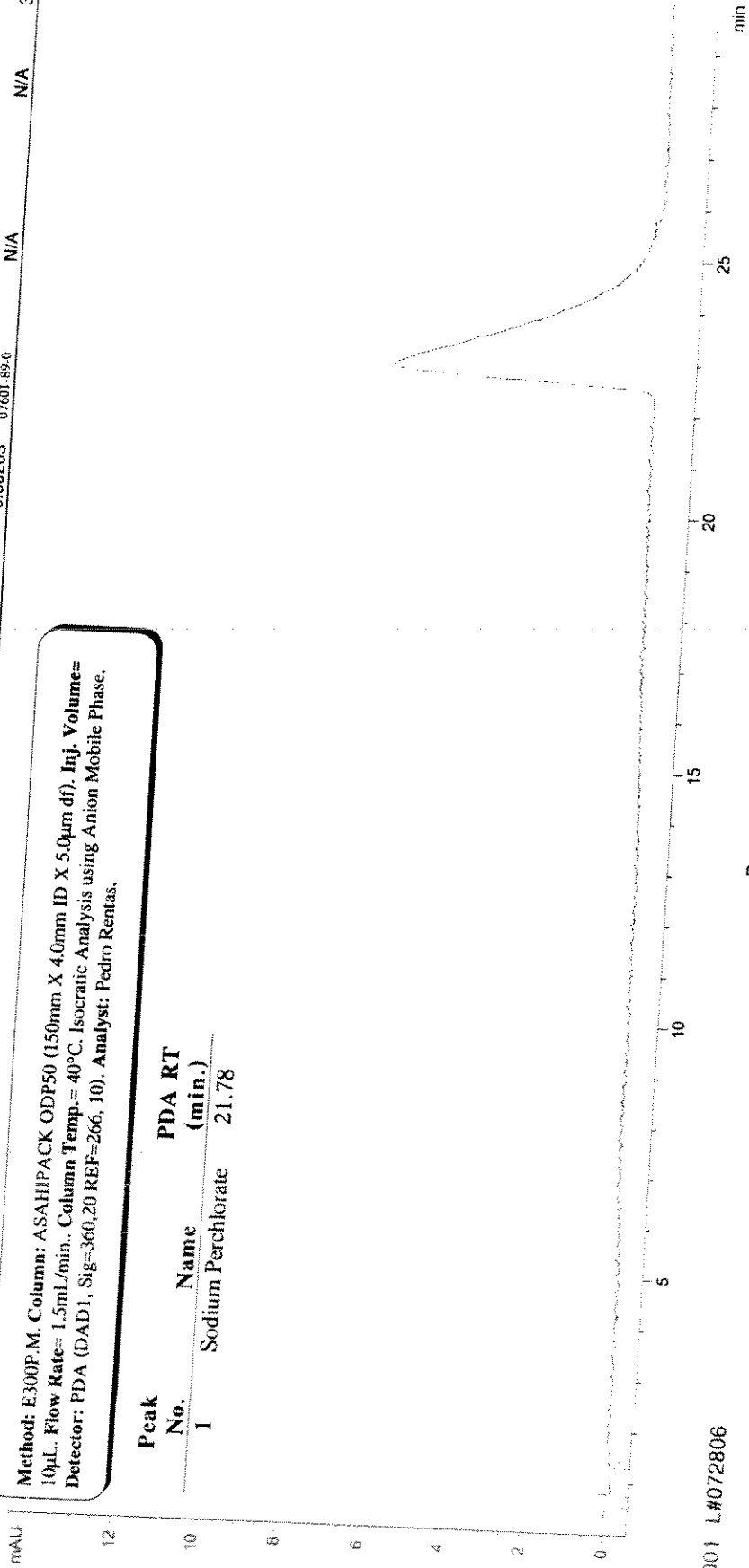
Nominal Concentration (µg/mL): 1000

Weight(s) shown below were combined and diluted to (mL): 1000.55 5E-05 Balance Uncertainty
0.084 Flask Uncertainty

Formulated By: Lawrence Barry 072806
Reviewed By: Pedro L. Rentas 072806

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Uncertainty Assay		Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty		MSDS Information	NIST
				Purity	(%)				(+/-)	(Solvent Safety Info. On Attached pg.)		
1. Sodium Perchlorate (ClO ₄)	IN119 AR06730TQ		1000.0	99.0	0.10	81.2	1.2319	1.23216	0.00203	07601.89.0	N/A	3152a
								1000.2		LD50		
										OSHA PEL (TWA)		

Method: E300P.M. Column: ASAHIPACK ODP50 (150mm X 4.0mm ID X 5.0µm df). Inj. Volume= 10µL. Flow Rate= 1.5mL/min. Column Temp.= 40°C. Isocratic Analysis using Antion Mobile Phase. Detector: PDA (DAD1, Sig=360.20 REF=266, 10). Analyst: Pedro Rentas.



Peak No.	Name	PDA RT (min.)
1	Sodium Perchlorate	21.78